CRPL-F217 PART A

FOR OFFICIAL USE

PART A

IONOSPHERIC DATA

ISSUED
SEPTEMBER 1962

U. S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS
CENTRAL RADIO PROPAGATION LABORATORY
BOULDER, COLORADO

CRPL-F 217
PART A

NATIONAL BUREAU OF STANDARDS
CENTRAL RADIO PROPAGATION LABORATORY
BOULDER, COLORADO

Issued
24 Sept. 1962

IONOSPHERIC DATA

CONTENTS

IONOSPHERIC DATA

The CRPL-F series bulletins are issued as part of the responsibility of the Central Radio Propagation Laboratory for the exchange and dissemination of ionospheric and related geophysical data. While originally a by-product of the collection of data by the CRPL for use in radio propagation studies, the CRPL-F series bulletins, Part A, "Ionospheric Data," and Part B, "Solar-Geophysical Data," have provided useful service by collecting and making available a wide variety of data in convenient form for use in research, not only on radio propagation and the ionosphere, but also on a wide variety of geophysical problems. Beginning with CRPL-F 211, Part A, "Ionospheric Data," a number of changes have been made in the tables of ionospheric data which, by providing more information, should increase their usefulness.

The current form of the tables of ionospheric data provides the monthly medians and, in addition, the number of values entering into median determination (count) for all ionospheric characteristics listed. Also, the upper and lower quartile values, indicated by UQ and LQ in the tables, are listed for foF2, h'F2, h'F, and (M3000)F2. Quartile values are not listed for the other characteristics because of space limitations. The tables are prepared by IBM machine methods, which, by improving the speed and efficiency of preparation, permit earlier publication of the data.

Graphs of critical frequencies and (M3000)F2 will continue to appear. Graphs of percentage of time of occurrence for fEs and virtual heights of the regular ionospheric layers are no longer included. This change was necessary to provide space for the enlarged tables. Data on percentage of time of occurrence of fEs above 3, 5, and 7 Mc are still available from the CRPL and the IGY World Data Center A for Airglow and Ionosphere.

For many years, the tables of ionospheric data appearing in the F-series, Part A, listed values of medians recomputed at CRPL. While this practice enforced a certain uniformity, it was subject to some valid criticism for tampering with original data. The tables and graphs now show the ionospheric data just as they are provided by the originating laboratory. Responsibility for the accuracy and reliability of the data now rests entirely with the originator.

Gaps in the tables when data normally might be expected indicate the data were not provided by the originator. Following the recommendation of the World-Wide Soundings Committee, only values of median foEs are listed. In the few cases where fEs is still reported instead of foEs, the data will not be printed. Data will appear in the F-series, Part A, only when the complete daily-hourly tabulations have been received by the CRPL or the IGY World Data Center A for Airglow and Ionosphere.

Information on symbols, terminology, and conventions may be found in the "URSI Handbook of Ionogram Interpretation and Reduction, of the World-Wide Soundings Committee," edited by W. R. Piggott and K. Rawer (Elsevier, 1961), which supersedes previous documents. A list of symbols is available from CRPL on request.

The following table contains the latest available information on smoothed observed Zurich sunspot numbers, beginning with the minimum of April 1954. Final numbers are listed through June 1961, the succeeding values being based on provisional data.

Smoothed Observed Zurich Sunspot Number

Month	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1954				3	4	4	5	7	8	8	9	12
1955	14	16	19	23	29	35	40	46	55	64	73	81
1956	89	98	109	119	127	137	146	150	151	156	160	164
1957	170	172	174	181	186	188	191	194	197	200	201	200
1958	199	201	201	197	191	187	185	185	184	182	181	180
1959	179	177	174	169	165	161	156	151	146	141	137	132
1960	129	125	122	120	117	114	109	102	98	93	88	84
1961	80	75	69	64	60	56	53	52	52	51	50	48
1962	44	41										

Units of Ionospheric Data Tables

foF2, foEs - - - Tenths of a megacycle
foF1, FoE - - - Hundredths of a megacycle
h'F2, h'F, h'E - Kilometers
(M3000)F2 - - - Hundredths

NOTE: Occasionally, when the median falls between two of the observed values, the median is carried an extra decimal place beyond these units. Those cases are easily identifiable by the extra digit appearing to the right of the number, in a column usually left blank.

MED - Median
CNT - Count
UQ - Upper Quartile
LQ - Lower Quartile

WORLD-WIDE SOURCES OF IONOSPHERIC DATA

The ionospheric data given here in tables 1 to 100 and figures 1 to 100 were assembled by the Central Radio Propagation Laboratory for analysis and correlation, incidental to CRPL prediction of radio propagation conditions. The data are median values unless otherwise indicated. The following are the sources of the data in this issue:

Republica Argentina, Ministerio de Marina:
- Decepcion I.
- Trelew, Argentina
- Tucuman, Argentina

Meteorological Service, Province of Macau, Asia:
- Macau

Commonwealth of Australia, Department of the Interior:
- Macquarie I.

Commonwealth of Australia, Ionospheric Prediction Service of the Commonwealth Observatory:
- Mawson
- Townsville, Australia

Australian Department of National Development, Bureau of Mineral Resources, Geology and Geophysics:
- Mundaring, Western Australia

Universidad Mayor de San Andres:
- La Paz, Bolivia

Electronics Directorate of the Brazilian Navy:
- Natal, Brazil

British Department of Scientific and Industrial Research, Radio Research Board:
- Halley Bay

Defence Research Board, Canada:
- Eureka, Canada
- Ottawa, Canada
- Resolute Bay, Canada
- St. John's, Newfoundland

Universidad de Concepcion:
- Concepcion, Chile

Instituto Geofisico de Los Andes Colombianos:
- Bogota, Colombia

Czechoslovak Academy of Sciences:
Pruhonice, Czechoslovakia

Danish National Committee of URSI:
Godhavn, Greenland

The Finnish Academy of Sciences and Letters:
Sodankyla, Finland

Ionospheric Research Group (GRI), France:
Kerguelen I.
Terre Adelie

Heinrich Hertz Institute, German Academy of Sciences, Berlin:
Juliusruh/Rugen, Germany

Indian Council of Scientific and Industrial Research, Radio Research Committee, New Delhi, India:
Ahmedabad (Physical Research Laboratory)
Bombay (All India Radio)
Calcutta (Institute of Radio Physics and Electronics)
Delhi (All India Radio)
Kodaikanal (India Meteorological Department)
Madras (All India Radio)
Tiruchy (All India Radio)
Trivandrum (All India Radio)

Geophysical and Geodetic Institute, Genoa, Italy:
Genoa (Monte Capellino), Italy

National Institute of Geophysics, City University, Rome, Italy:
Rome, Italy

Christchurch Geophysical Observatory, New Zealand Department of Scientific and Industrial Research:
Campbell I.

Norwegian Defence Research Establishment, Kjeller per Lillestrom, Norway:
Tromso, Norway

South African Council for Scientific and Industrial Research:
Salisbury, Southern Rhodesia (University College of Rhodesia and Nyasaland)

United States Army Signal Corps:
Ft. Monmouth, New Jersey

National Bureau of Standards (Central Radio Propagation Laboratory):
Anchorage, Alaska
Boulder, Colorado
Huancayo, Peru (Instituto Geofisico de Huancayo)
Maui, Hawaii
Talara, Peru (Instituto Geofisico de Huancayo)
Washington, D. C.

SPECIAL NOTICE

Termination of Hourly Electron Density Profile Tabulations

Hourly N(h) profiles for the Puerto Rico station have been published in the CRPL-F Reports, Part A, since May 1959, starting with the data for February 1959. This program terminated with the publication in CRPL-F215 of the data for March 1962. It is believed that this program has satisfied the objective of making available a large volume of profiles produced by methods of conventional accuracy. However, in anticipation of the increasing precision required by modern applications, we intend to concentrate further work on the calculation of more accurate profiles, inevitably in smaller volume.

TABLES OF IONOSPHERIC DATA

NOVEMBER 1961 - JANUARY 1958

TABLE 1

WASHINGTON, D.C. (38.7N, 77.1W) — TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	26	27	29	32	32	29	27	45	64	695	75	78	80	825	81	80	77	67	50	41	33	29	27	26
	CNT	29	27	26	29	28	28	27	30	29	30	30	30	30	30	30	30	29	29	29	29	29	29	30	30
	UQ	31	30	34	36	34	33	29	50	68	72	79	83	83	86	85	84	81	72	54	47	37	32	30	30
	LQ	25	25	25	27	26	24	23	42	60	66	70	75	77	79	75	75	73	63	46	35	29	24	23	24
h'F2	MED									230	230	250	2475	250	250	245	240	U 235							
	CNT								1	13	21	20	26	21	24	26	25	5							
	UQ									240	245	260	260	265	260	250	240	240							
	LQ									225	230	240	240	245	250	240	235	230							
h'F	MEQ	E 290	E 290	2725	260	260	250	U 255	230	220	210	200	205	200	2125	225	2275	230	215	220	235	E 250	U 265	U 280	E 285
	CNT	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	29	29	29	29	29	29	30	30
	UQ	300	300	290	270	270	260	280	240	225	215	220	210	205	225	230	235	230	220	230	240	250	280	300	305
	LQ	280	280	270	250	245	240	240	225	220	200	200	200	190	200	215	220	220	210	215	225	240	260	270	275
(M3000)F2	MEQ	295	290	2975	300	3175	3125	320	340	350	350	340	335	335	330	330	335	340	340	330	325	310	305	2975	290
	CNT	23	19	20	24	20	22	24	28	28	28	29	30	30	30	29	30	29	28	28	28	27	28	28	25
	UQ	300	300	300	310	320	325	320	345	360	360	350	350	340	340	340	340	340	350	335	330	330	310	300	300
	LQ	280	280	290	300	300	305	300	330	350	340	330	330	325	325	330	325	330	330	320	315	300	300	290	280
foF1	MED																								
	CNT																								
foE	MEQ								165	215	255	280	2975	300	300	280	2525	205							
	CNT								5	28	30	30	30	30	29	28	28	24	1						
h'E	MED								E 135	119	111	109	109	109	109	111	119	121							
	CNT								5	30	29	29	30	30	29	29	30	23	1						
foEs	MEQ									23	27	285				29									
	CNT	30	30	30	30	30	30	30	30	30	30	30	30	30	30	29	30	29	29	29	28	29	29	30	30

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. — NOVEMBER, 1961

TABLE 2

ANCHORAGE, ALASKA (61.2N, 149.9W) — TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 195	U 20	U 19	U 175	U 20	U 22	U 26	36	49	535	59	63	63	65	64	625	62	55	47	36	28	U 245	U 24	U 205
	CNT	12	12	11	8	4	5	20	28	27	28	28	29	29	28	28	30	31	31	29	26	27	26	21	18
	UQ	20	25	25	24	29	32	30	42	53	62	65	70	72	75	76	72	68	61	54	43	38	28	28	22
	LQ	16	18	17	15	14	18	20	32	40	46	50	50	54	56	53	53	52	48	40	32	25	21	22	19
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MEQ	U 2925	U 270	U 275	U 270			U 290	3175	330	3225	320	315	315	325	3275	330	335	330	320	3225	315	315	300	U 300
	CNT	8	10	9	6	3	3	14	28	26	28	27	28	28	28	28	29	30	30	29	24	26	24	20	18
	UQ	300	295	290	270			300	330	335	335	335	335	330	340	340	335	340	340	335	330	330	320	320	310
	LQ	280	270	270	265			285	300	315	315	310	310	310	315	320	320	325	320	315	310	310	300	290	290
foF1	MED										1	1	1	1	1										
	CNT																								
foE	MED								1725	200	2325	250	U 260	260	255	250	230								
	CNT						1	3	6	13	20	20	17	15	16	21	18	4	1						
h'E	MEQ								U 125	119	119	119	117	117	115	119	U 122	U 125							
	CNT						1	3	13	15	21	26	26	21	23	22	18	9							
foEs	MEQ	245	235	35	30	31	25																		30
	CNT	24	26	25	22	20	23	21	29	27	28	28	29	29	29	29	30	27	30	26	29	29	25	22	25

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. — OCTOBER, 1961

TABLE 3

TALARA, PERU (4.6S, 81.3W) — TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	85	67	53	47	38	33	40	73	94	1065	106	110	106	105	104	106	106	108	110	110	1095	112	104	965
	CNT	22	19	19	22	20	19	23	27	28	30	29	29	31	31	31	31	31	31	31	31	26	18	18	22
	UQ	97	75	60	52	45	38	46	76	96	113	112	113	116	116	111	110	110	114	116	116	116	116	111	104
	LQ	78	64	51	40	28	22	38	71	90	98	104	104	99	97	100	98	97	101	101	102	98	104	96	92
h'F2	MEQ												U 315	U 335	E 325										
	CNT									1	1	1	6	7	6	3	1	1	1						
	UQ												325	345	330										
	LQ												310	330	320										
h'F	MEQ	2125	220	E 225	230	240	250	265	240	220	205	200	200	200	195	190	U 1925	200	230	260	270	2675	235	215	210
	CNT	30	29	28	28	27	29	29	30	29	28	29	28	28	25	21	24	25	26	28	31	30	27	28	29
	UQ	220	230	230	240	255	275	280	240	230	220	210	205	200	200	200	200	215	240	260	290	290	240	220	220
	LQ	210	210	220	220	230	235	255	235	210	200	200	190	190	190	180	185	190	200	255	260	255	225	210	205
(M3000)F2	MEQ	330	345	330	325	330	325	310	325	300	295	290	230	230	240	240	240	240	250	2725	280	275	300	325	325
	CNT	22	18	18	22	20	17	23	27	27	29	29	28	30	28	31	31	31	30	28	29	23	15	18	22
	UQ	340	350	340	335	340	350	320	335	320	300	280	260	250	250	255	250	255	265	280	290	305	330	335	335
	LQ	305	320	320	315	320	300	300	320	285	260	230	220	215	235	230	225	230	235	260	270	260	295	300	315
foF1	MEQ												495	490	480										
	CNT											4	6	9	5	2									
foE	MEQ								240	295	335	355	370	375	365	355	330	300	260	195					
	CNT							1	26	26	29	26	26	27	23	20	20	14	15	13					
h'E	MEQ								119	115	113	E 111	109	109	109	109	107	109	E 114	E 148					
	CNT								28	27	29	29	29	29	29	30	30	28	18	8					
foEs	MEQ	31	245	25	21	195	215	22	28						38	39	40	35	32	31	21		22	285	32
	CNT	31	30	30	30	30	30	30	30	28	29	29	29	31	31	31	31	31	31	31	31	31	31	30	31

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. — OCTOBER, 1961

TABLE 4

HUANCAYO, PERU (12.0S, 75.3W) — TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	84	68	53	47	435	36	64	86	102	104	100	905	90	895	90	935	95	995	100	94	96	89	90	89
	CNT	16	20	22	23	20	19	24	28	31	31	31	30	30	30	30	30	30	30	31	29	13	11	13	13
	UQ	90	76	61	56	50	42	66	88	104	108	106	102	96	94	93	99	104	106	107	99	98	97	102	93
	LQ	76	58	50	43	36	30	58	82	98	100	89	83	82	84	82	88	90	90	90	82	81	81	87	84
h'F2	MEQ										3025	305	335	3325											
	CNT									4	10	8	11	10	3	1									
	UQ										310	325	350	345											
	LQ										300	300	315	320											
h'F	MEQ	230	230	235	240	240	245	245	230	215	205	200	1975	195	190	190	195	200	240	265	3225	U 295	250	2425	235
	CNT	30	28	29	26	25	23	28	29	31	31	31	30	30	30	30	30	30	30	31	28	17	15	22	24
	UQ	250	235	250	245	250	260	250	230	220	210	205	200	200	190	195	195	210	250	270	335	360	280	255	270
	LQ	220	220	230	230	235	235	240	225	215	205	200	190	190	185	185	190	195	235	255	295	260	245	220	220
(M3000)F2	MEQ	325	325	325	325	330	335	335	330	305	265	250	245	250	250	250	250	2525	255	265	260	2675	285	300	315
	CNT	15	20	20	21	20	19	24	28	29	31	31	28	30	30	30	30	30	30	29	28	12	11	13	13
	UQ	330	330	330	335	335	340	340	335	325	300	260	250	255	255	255	255	265	265	275	265	280	300	315	330
	LQ	320	320	320	320	325	325	325	320	290	250	240	240	245	245	245	245	250	250	260	250	260	270	290	300
foF1	MEQ											490	490	490	480										
	CNT										1	5	11	15	8	2									
foE	MEQ							185	265	U 310	U 340	U 340	U 365	U 3775	U 380	U 370	U 360	U 330	U 290	U 240	140				
	CNT							26	29	31	31	31	30	30	30	30	30	30	27	25	9				
h'E	MEQ							129	115	111	109	107	105		106	107	105	108	111	E 153					
	CNT							25	29	27	19	11	6	3	10	11	24	30	28	10					
foEs	MED							39		60	80	80	80	80	80	80	775	70	58	39					
	CNT	30	31	31	29	30	27	28	29	29	31	31	28	30	30	30	30	30	30	29	29	31	31	31	30

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. — OCTOBER, 1961

TABLE 5

TALARA, PERU (4.6S, 81.3W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEO	95	83	665	58	50	41	355	595	735	84	91	955	95	96	995	104	105	1015	1015	98	U	U	U	O
	CNT	23	26	24	21	23	21	20	26	28	30	30	30	29	29	28	27	27	28	28	29	93	965	100	105
	UQ	110	92	77	66	54	46	40	66	80	92	98	100	100	102	106	110	110	108	104	106	19	16	22	21
	LQ	92	71	63	50	44	34	33	55	70	79	85	88	90	92	93	95	97	97	96	92	104	107	104	110
h'F2	MEO											U	U												
	CNT										1	3	375	3825	375	355									
	UQ												7	8	14	13									
	LQ												380	400	390	395									
													370	370	355	335									
h'F	MEO	210	E	230	230	225	2325	260	240	220	200	200	200	200	1975	200	1975	200	230	255	300	300	250	230	220
	CNT	29	2175 30	29	29	29	26	25	29	29	30	30	29	28	28	27	24	26	27	27	28	24	22	25	29
	UQ	220	225	230	230	240	245	270	245	230	215	205	200	200	200	200	200	210	230	260	305	325	280	240	230
	LQ	210	210	220	220	220	220	250	225	205	200	195	190	190	190	180	180	190	220	250	280	285	230	215	210
(M3000)F2	MEO	335	335	335	340	345	335	300	315	280	2525	230	225	215	215	2275	250	255	255	255	U 260	260	U 285	295	325
	CNT	21	24	24	21	22	20	19	26	27	30	30	29	27	27	28	26	27	28	26	21	10	7	11	17
	UQ	345	340	340	350	360	350	315	325	290	260	245	235	225	225	245	260	260	265	260	265	270	310	320	340
	LQ	330	320	330	320	320	315	280	315	275	240	225	215	210	210	220	230	235	240	250	250	245	260	290	315
foF1	MEO												495	500	490	490									
	CNT										1	3	6	7	15	10									
foE	MEO								225	2925	335	360	375	3775	370	360	340	310	270	200					
	CNT								25	28	30	30	29	28	28	28	22	18	15	9					
h'E	MEO								123	115	111	109	109	109	107	109	109	111	115						
	CNT								29	29	30	30	29	29	29	28	26	24	22	4					
foEs	MEO																								
	CNT	29	30	29	29	29	28	29	29	29	30	30	30	29	29	28	27	27	28	28	29	30	29	29	30

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. SEPTEMBER, 1961

TABLE 6

TALARA, PERU (4.6S, 81.3W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEO	835	78	725	71	51	435	39	53	69	77	80	82	835	90	92	95	995	99	98	925	90	O 895	94	94
	CNT	22	25	24	23	23	22	19	24	27	26	25	26	26	25	24	24	24	25	24	24	24	22	19	18
	UQ	95	86	86	80	70	49	43	60	75	81	84	84	92	94	96	102	105	104	101	96	95	95	99	98
	LQ	76	69	61	54	41	34	26	51	67	73	75	77	80	83	86	91	92	94	94	87	83	82	87	82
h'F2	MEO												U				U								
	CNT											4	380 6	405 11	4075 16	395 12	400 9	1	2						
	UQ												400	440	430	430	440								
	LQ												365	390	370	370	365								
h'F	MEO	2225	230	235	235	230	2275	250	235	210	200	190	190	195	200	200	200	210	215	250	2725	300	280	255	235
	CNT	26	27	27	27	27	22	21	27	27	26	25	26	26	25	24	23	23	24	24	24	24	23	23	23
	UQ	230	235	260	255	245	240	260	250	220	210	200	200	200	205	200	205	215	220	260	290	330	315	275	250
	LQ	215	220	225	220	220	220	235	220	200	190	180	180	185	190	195	195	190	200	250	260	275	260	240	225
(M3000)F2	MEO	320	320	330	330	340	340	320	310	290	250	240	220	220	225	225	230	240	245	255	2575	250	270	285	305
	CNT	22	23	23	23	22	21	19	23	26	23	23	26	25	25	24	24	23	25	23	22	22	17	18	17
	UQ	335	325	345	350	350	360	340	320	305	265	260	235	235	240	240	240	255	260	275	265	260	280	300	320
	LQ	300	300	310	320	330	330	310	300	285	250	230	215	215	215	210	220	235	235	245	240	245	260	275	300
foF1	MEO												470	500	480	490	470								
	CNT											4	6	12	17	13	7								
foE	MEO								200	280	315	3475	3625	3675	365	355	340	315	270	200					
	CNT								22	24	24	24	26	26	25	23	22	20	17	11					
h'E	MEO								124	112	109	E 109	109	107	107	105	105	109	113	E 129					
	CNT								24	26	24	24	26	26	25	24	23	23	23	10					
foEs	MEO																335	32	28		18				
	CNT	26	27	27	27	27	27	27	27	27	24	23	26	25	25	24	24	24	25	23	23	25	25	25	25

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. AUGUST, 1961

TABLE 7

HUANCAYO, PERU (12.0S, 75.3W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	675	665	62	52	48	43	40	66	82	85	85	845	84	84	86	87	86	84	82	755	735	76	76	70
	CNT	26	26	25	24	19	20	24	25	27	27	29	30	31	31	31	31	31	31	31	30	28	26	27	25
	UQ	74	75	70	62	52	46	47	70	87	92	92	90	90	90	93	92	96	89	88	80	76	80	86	84
	LQ	62	55	48	46	40	34	32	63	78	82	78	80	79	77	78	82	80	79	79	72	68	72	70	64
h'F2	MEO										U	U													
	CNT										320 5	320 8	350 14	350 11	390 13	360 10	1								
	UQ										330	340	365	375	415	385									
	LQ										310	320	325	340	365	345									
h'F	MEO	220	215	220	230	230	240	280	235	220	210	200	195	195	195	190	195	205	230	265	3075	E 285	E 250	230	220
	CNT	29	29	27	26	20	20	24	25	27	27	29	30	30	30	30	31	31	31	31	30	28	26	28	27
	UQ	225	225	230	235	235	250	290	240	220	215	205	200	200	200	195	200	210	235	270	325	310	275	250	225
	LQ	215	210	215	220	220	235	260	230	215	200	200	190	190	190	190	195	200	225	260	280	265	235	220	210
(M3000)F2	MEO	3275	330	330	330	330	325	2925	315	290	270	260	250	250	245	245	245	250	255	260	250	260	280	3025	320
	CNT	26	25	24	24	18	19	22	22	26	27	29	29	29	30	30	30	29	30	30	28	26	25	26	24
	UQ	335	340	335	335	345	330	310	320	300	285	270	260	260	250	250	255	250	265	270	270	280	290	310	330
	LQ	315	320	320	325	325	315	285	310	280	260	250	245	240	240	240	240	240	240	250	240	250	270	290	310
foF1	MEO											470	470	470	470	460									
	CNT										1	7	12	8	13	6	1								
foE	MEO								U 225	U 2875	U 320	U 350	U 360	U 370	U 360	U 350	U 325	U 295	U 240	150					
	CNT								24	26	27	29	30	31	30	30	31	31	30	11					
h'E	MEO								113	109	109	105	103			103	105	109	111	E 153					
	CNT								18	21	20	17	9	4	4	13	23	28	30	10					
foEs	MEO							33	58	745	80	89	90	90	89	87	81	77	675	43					
	CNT	29	29	28	28	23	24	23	22	26	27	29	29	29	30	30	30	29	30	28	28	29	29	30	29

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. AUGUST, 1961

TABLE 8

GOOHAVN, GREENLAND (69.3N, 53.5W) TIME 45.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEO	41	U 43	U 41	U 385	U 405	U 435	U 355	40	E 385	U 475	U 515	U 53	U 54	U 55	U 53	U 51	U 51	U 50	U 495	U 48	U 48	U 45	U 44	U 44
	CNT	19	16	20	16	16	14	10	9	6	8	8	13	14	15	13	14	18	21	20	19	22	22	21	18
	UQ	45	46	43	44	44	45	39	44	40	50	52	56	57	57	56	53	53	52	52	50	50	50	47	45
	LQ	40	38	38	35	38	40	34	36	38	42	49	50	50	50	51	48	48	47	47	46	44	44	40	43
h'F2	MEO																								
	CNT																								
	UQ																								
	LQ																								
h'F	MEO																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MEO	3025	305	U 295	U 280	U 290	U 280	G	G	G			U 270	U 270	U 295	U 275	U 2725	U 2875	U 270	2825	2875	295	305	U 3025	U 3025
	CNT	16	13	15	9	13	7	8	7	5	4	4	6	9	9	8	10	12	12	14	10	15	16	16	14
	UQ	310	315	310	300	300	305		290				285	285	300	290	300	300	295	295	300	300	315	310	315
	LQ	300	290	275	255								265	260	270	270	255	280	250	275	280	285	295	295	290
foF1	MEO					U 320	U 350	U 360	U 370	U 385	U 420	U 420	U 430	U 430	U 430	U. 435	430	U 420	U 410	U 400	U 370	U 350			
	CNT			2	4	11	10	13	12	10	11	14	15	19	20	18	16	19	20	12	7	6	1	1	
foE	MEO		U 180	185	195	210	U 230	2475	260		U 300	U 300	U 305	U 300	300	U 300	300	U 295	U 2675		U 250				
	CNT	4	5	5	5	7	9	8	5	4	7	9	9	9	8	7	10	10	6	4	6	2	1		
h'E	MEO	151	U 151	148	145	125	111	U 109	103	105	101	101	101	101	101	101	101	101	105	U 113	U 119				
	CNT	7	6	8	6	10	12	13	13	11	12	11	12	12	13	14	14	14	12	9	9	2	2	1	
foEs	MEO	22	21	22	21	21	21	21	21	20	18	20	19	21	21	23	24	24	355 22	335 20	32 22	30 21	23	20	19

SWEEP 1.6 MC TO 20.0 MC IN 18 SECONDS. JULY, 1961

TABLE 9

TALARA, PERU 14.6S, 81.3W) — TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEO	68	62	565	555	485	445	37	50	63	70	73	775	805	81	87	90	905	925	90	87	82	80	80	77
	CNT	26	29	28	26	24	22	22	26	29	30	31	30	30	30	31	31	30	30	31	31	31	28	27	26
	UQ	77	72	70	68	62	54	42	57	70	74	79	82	85	86	90	96	96	96	91	90	88	86	91	83
	LQ	58	54	50	44	42	30	27	47	60	66	68	72	76	79	81	85	86	89	86	82	77	72	74	69
h'F2	MEO												430	420	3975	410	3775								
	CNT									1	1	3	10	16	16	17	14	4	1						
	UQ												455	465	480	455	400								
	LQ												430	395	370	370	365								
h'F	MEO	235	250	255	265	250	240	250	255	2275	210	200	200	2025	200	200	205	205	220	260	290	U 310	305	275	240
	CNT	31	30	31	28	28	23	25	30	30	31	31	30	28	29	28	31	30	31	31	31	31	31	31	31
	UQ	255	260	285	285	275	270	310	260	240	220	210	215	210	210	210	210	230	235	265	305	340	340	290	255
	LQ	230	235	240	245	230	220	240	245	215	200	195	195	200	190	195	195	200	210	250	280	285	290	255	230
(M3000)F2	MEO	315	310	300	315	320	320	3075	305	290	260	230	220	220	220	230	235	240	2425	2425	250	260	2725	300	315
	CNT	25	27	27	26	23	18	20	25	29	30	29	30	29	30	31	31	27	30	28	29	27	24	23	23
	UQ	325	320	325	330	335	345	320	325	310	265	240	230	235	225	240	250	250	255	260	265	275	280	305	325
	LQ	295	300	285	300	300	300	290	295	285	245	225	210	210	210	210	225	230	225	230	240	245	265	280	300
foF1	MEO												475	480	480	470									
	CNT										1	4	12	16	16	12	4	2							
foE	MEO								1925	270	315	340	355	365	365	355	340	310	265	200					
	CNT								22	28	29	30	28	27	27	26	23	17	20	12					
h'E	MEO								E 130	112	109	109	107	107	106	109	108	109	U 111	E 133					
	CNT								24	28	28	29	29	28	26	26	28	26	24	12					
foEs	MEO									30	33	365		395		38	36	35	36	36	30	255	28	19	
	CNT	31	31	31	31	31	31	30	30	30	31	30	30	30	30	31	31	29	30	31	31	30	31	31	31

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. — JULY, 1961

TABLE 10

GOOHAVN, GREENLAND (69.3N, 53.5W) — TIME 45.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEO	U 46	U 45	U 46	U 455	U 445	U 44	U 425	U 44	U 47	U 485	U 51	U 54	U 57	U 535	U 53	U 53	U 52	U 52	U 51	U 50	U 505	48	U 47	U 46
	CNT	29	29	27	26	24	20	24	21	15	14	21	23	23	22	21	25	27	27	29	30	28	27	29	29
	UQ	48	49	50	50	48	50	47	48	50	52	55	57	59	55	58	56	54	57	54	54	52	52	52	48
	LQ	42	42	41	41	39	39	37	40	39	41	49	52	52	50	50	49	50	48	48	47	48	45	44	40
h'F2	MEO																								
	CNT																								
	UQ																								
	LQ																								
h'F	MEO																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MEO	U 300	U 300	U 300	U 300	U 300	U 2875	G	G	G	G	U 290	280	U 285	2775	280	275	U 280	300	285	300	305	305	310	305
	CNT	25	19	15	7	13	8	13	9	10	6	12	14	15	12	11	14	17	15	23	21	21	23	23	20
	UQ	310	315	315	305	310	320	280	270	280	260	300	290	295	295	300	300	290	310	300	305	310	310	315	315
	LQ	300	290	300	290	270							255	275	270	275	215	250	285	280	290	290	295	300	300
foF1	MEO					U 340	U 350	U 370	380	U 400	U 410	U 430	U 430	440	U 440	U 430	U 440	U 430	U 410	U 400	U 385	U 360			
	CNT			2	2	6	11	22	21	19	21	26	27	26	25	23	23	22	18	19	10	5	1	1	1
foE	MEO	U 180	180	190	U 200	200	220	U 250	U 270	U 300	U 305	3075	U 310	U 310	U 305	U 300	U 300	U 2875	U 2825	U 255	U 250	U 240			
	CNT	12	10	15	14	12	16	19	13	9	12	14	10	13	14	14	14	14	12	11	9	7	3	2	
h'E	MEO	149	E 149	E 140	125	115	109	105	103	105	101	101	101	101	101	101	101	101	102	U 111	E 115	E 120	U 119		
	CNT	13	16	18	23	24	25	27	25	22	27	24	23	27	24	24	20	24	20	16	15	10	5	2	
foEs	MEO																535	47	365	47	40	30	24		
	CNT	30	30	30	30	30	30	30	29	26	29	28	28	30	29	29	28	30	30	29	28	29	29	30	30

SWEEP 1.6 MC TO 20.0 MC IN 18 SECONDS. — JUNE, 1961

TABLE 11

GOOHAVN, GREENLAND (69.3N, 53.5W) — TIME 45.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEO	U 425	U 40	U 38	U 405	U 405	U 42	U 40	U 40	U 47	U 47	U 53	U 53	U 55	U 54	U 53	U 525	U 53	U 51	U 515	49	47	46	45	U 43
	CNT	26	30	24	26	20	20	20	21	17	14	15	23	22	22	26	28	29	29	30	31	30	30	29	29
	UQ	45	45	48	44	46	46	45	45	48	50	55	56	59	58	59	58	57	56	54	56	51	50	48	46
	LQ	35	37	35	35	36	34	35	36	40	45	50	49	50	50	50	50	47	47	48	46	43	43	40	40
h'F2	MEO																								
	CNT																								
	UQ																								
	LQ																								
h'F	MEO																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MEO	300	305	295	285	U 290	245	G	G	G		U 2725	U 295	270	2925	U 285	2775	U 2925	2875	U 2875	2975	300	305	305	3025	305
	CNT	14	20	11	11	5	11	12	12	9	10	5	13		12	8	12	16	20	22	18	22	25	23	26	19
	UQ	305	320	300	305	295	350	295		290	305	300	285		305	295	300	305	300	300	305	305	315	310	310	315
	LQ	300	290	290	250						250				280	270	260	270	260	280	295	295	295	300	290	295
foF1	MEO				U 285	U 290	U 330	U 350	U 365	U 390	U 400	U 410	U 420	U 430	U 430	U 420	U 415	U 405	U 400	U 390	U 360				
	CNT			1	6	10	16	20	20	19	19	24	29	27	25	19	22	24	21	13	7	1	1		
foE	MEO				185	200	200	230	U 255	U 285	300	310	U 3075	U 305	U 300	U 300	U 290	U 280	U 270	U 250	U 235				
	CNT	2	1	4	6	10	11	19	15	11	14	17	16	18	15	23	23	26	22	16	8	4	1		1
h'E	MEO		E 167	E 160	U 145	130	E 117	109	109	109	106	105	103	107	E 109	103	103	105	107	E 119	E 116	E 125			
	CNT	3	5	6	14	24	27	28	29	27	28	31	24	27	27	29	30	26	28	25	12	5	1	2	1
foEs	MEO																	335	38	35	305	235	345		
	CNT	30	30	29	28	29	29	29	29	29	29	31	27	30	29	31	31	28	30	29	30	30	30	30	29

SWEEP 1.6 MC TO 20.0 MC IN 18 SECONDS. — MAY, 1961

TABLE 12

GOOHAVN, GREENLAND (69.3N, 53.5W) — TIME 45.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEO	U 41	U 38	U 36	U 35	U 35	U 355	U 40	U 40	U 44	U 49	U 50	U 54	U 56	U 55	U 52	U 54	U 53	U 51	U 52	U 48	47	U 445	U 42	U 415
	CNT	23	20	21	18	17	18	19	20	17	19	21	20	22	21	24	24	27	27	28	29	29	26	24	24
	UQ	45	44	43	39	37	38	41	44	47	54	55	58	60	60	56	56	55	55	54	53	54	51	48	46
	LQ	35	32	30	32	28	33	37	38	40	44	47	52	52	51	50	51	50	47	48	44	42	38	38	38
h'F2	MEO																								
	CNT																								
	UQ																								
	LQ																								
h'F	MEO																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MEO	295	U 295	290	295	U 305	U 325	U 320	U 310	U 280	U 2625	U 285	2825	285	290	U 285	U 290	U 2925	300	300	U 305	3075	305	300	U 300
	CNT	14	8	12	10	6	7	6	9	9	8	13	10	14	10	9	13	14	17	22	25	22	17	18	10
	UQ	300	300	295	300	305	325	330	315	305	280	305	295	290	290	295	305	300	310	310	315	310	315	300	300
	LQ	285	290	285	285	300	300	310			255	280	280	280	280	270	280	285	290	290	300	300	300	295	290
foF1	MEO								U 310	U 350	U 370	U 400	U 400	U 410	U 410	U 400	U 400	390	U 380						
	CNT							2	5	12	11	17	22	22	21	19	18	13	9	3					
foE	MEO						U 200	U 220		U 2625	U 270	300	300	300	300	280	2775	265	U 240	240	U 220				
	CNT					1	3	9	12	6	13	17	14	15	23	25	26	26	25	14	7	1			
h'E	MEO						U 121	119	111	U 115	U 109	109	109	109	U 109	109	109	109	U 115	E 127	U 127				
	CNT					3	11	18	22	21	21	27	24	22	24	28	27	28	27	15	7	2			
foEs	MEO																		27						
	CNT	28	28	27	27	26	28	28	28	27	25	27	27	25	28	29	30	30	29	30	29	30	28	28	28

SWEEP 1.6 MC TO 20.0 MC IN 18 SECONDS. — APRIL, 1961

TABLE 13

BOULDER, COLORADO (40.0N, 105.3W) TIME 105.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	37	36	35.5	34	32.5	33.5	44	55	58	60.5	67	70	73.5	78	79	74.5	70	69	66	63	56	48	41.5	38
	CNT	22	21	18	20	20	22	23	23	23	24	21	21	24	24	23	22	22	21	22	22	23	22	22	19
	UQ	40	40	38	37	35	36	49	58	65	67	70	78	78	82	84	82	74	74	71	68	59	51	45	40
	LQ	33	32	33	30	30	30	41	47	51	54	60	62	66	70	69	68	65	60	60	55	50	45	37	34
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	280	282.5	280	282.5	285	300	325	320	320	300	300	290	295	292.5	300	310	312.5	320	325	325	310	305	290	290
	CNT	17	18	16	14	17	18	23	22	22	23	20	21	24	24	22	22	22	21	22	21	21	21	16	19
	UQ	290	290	290	295	300	300	330	330	330	315	310	300	300	305	310	320	320	325	330	330	320	310	300	295
	LQ	270	270	270	275	280	290	310	310	300	290	280	280	280	285	290	295	305	310	315	315	300	295	280	275
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED						20		25	30	32	32.5	35	35	34.5	28		26.5		20					
	CNT	24	24	24	23	23	23	23	23	23	23	20	21	24	24	22	22	22	21	22	22	23	23	23	23

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. APRIL, 1961

TABLE 14

MAUI, HAWAII (20.8N, 156.5W) TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	59	D 53.5	48	40	36	33.5	40	66.5	76	84	98	107.5	121	133.5	139	135.5	136.5	135	130.5	112.5	93.5	D 81.5	69.5	62
	CNT	30	30	30	31	30	30	30	30	30	30	31	30	30	30	30	30	30	30	30	30	30	30	30	30
	UQ	68	64	57	47	42	42	48	70	80	93	102	115	130	140	153	155	149	150	141	128	110	90	80	72
	LQ	48	45	43	36	31	26	35	62	72	79	92	104	118	127	128	130	130	128	117	94	75	64	57	48
h'F2	MED										U 290	310	330	340	315	297.5	290	270	257.5	U 250					
	CNT									1	5	11	17	25	30	30	29	28	28	6					
	UQ										300	340	355	345	330	310	295	290	270	255					
	LQ										285	280	320	325	305	285	285	260	250	235					
h'F	MED	270	260	245	E 245	E 272.5	E 277.5	260	235	E 222.5	210	205	195	195	200	210	220	E 232.5	230	240	222.5	E 227.5	E 240	E 265	270
	CNT	30	30	30	30	30	30	30	30	30	29	27	25	27	28	28	27	27	25	27	30	30	30	30	30
	UQ	295	275	255	270	285	300	275	240	230	220	210	205	200	230	220	230	230	235	245	235	235	265	280	290
	LQ	255	245	235	220	235	250	255	230	220	205	200	190	190	190	195	220	220	225	225	215	220	230	250	265
(M3000)F2	MED	292.5	310	320	305	290	285	307.5	337.5	320	287.5	275	275	290	300	310	307.5	315	320	330	320	310	295	290	290
	CNT	30	27	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	27	21	21	27
	UQ	310	320	340	340	300	310	320	350	330	305	280	285	295	305	315	315	320	330	340	340	320	300	295	300
	LQ	280	295	305	295	280	275	300	325	310	270	265	270	280	295	300	300	305	315	325	310	300	280	265	275
foF1	MED											U 490	500	515	500	500	U 485								
	CNT										1	11	12	16	22	22	10								
foE	MED							150	230	290	U 320	347.5	367.5	370	372.5	360	350	320	275	U 210					
	CNT						1	10	26	25	21	16	14	11	12	17	18	23	24	10					
h'E	MED							145	115	109	107	107	107	107	107	107	107	109	111	119					
	CNT						1	13	22	29	30	30	29	28	27	26	26	25	19	13					
foEs	MED	22	18	18	15		13	15.5	24.5	33.5	36	39	39.5	39.5	41	42	39	37.5	34	28	28	29	20.5	18	
	CNT	30	30	29	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. APRIL, 1961

TABLE 15

CONCEPCION, CHILE (36.6S, 73.0W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	47	45	46	48	44	32	37	63.5	79	98	97	106	116	106	113	116	106	92	71	61	59.5	53	49	49
	CNT	24	23	23	21	21	21	20	20	19	24	25	25	20	25	26	26	27	23	21	22	22	23	24	24
	UQ	51	50	51	56	50	38	41	70	88	104	112	126	123	124	121	122	122	110	81	70	76	64	56	52
	LQ	45	43	42	44	40	28	34	62	74	89	90	100	102	96	104	104	94	84	65	56	53	48	47	46
h'F2	MED										250	250	260	260	260	270	260	240							
	CNT										11	17	18	14	19	17	24	18	4						
	UQ										260	255	270	270	265	275	270	250							
	LQ										250	240	250	240	250	260	250	240							
h'F	MED	310	297.5	290	260	220	230	255	220	230	222.5	215	205	200	202.5	202.5	240	240	225	220	240	257.5	260	285	300
	CNT	24	24	23	21	21	21	20	20	19	24	25	25	20	24	26	26	24	20	21	22	22	23	24	24
	UQ	320	310	300	285	245	290	270	230	230	230	220	210	210	230	220	250	250	230	230	260	270	290	320	320
	LQ	290	290	280	245	210	210	230	190	230	220	210	200	190	190	200	225	230	220	210	240	250	255	270	290
(M3000)F2	MED	275	280	290	310	340	310	300	350	350	340	340	330	325	325	325	335	345	350	335	290	300	295	280	280
	CNT	24	23	23	21	21	20	20	20	19	17	17	20	20	19	18	17	17	20	20	20	19	22	24	23
	UQ	290	290	300	330	370	340	310	360	360	350	350	340	340	330	330	345	350	360	350	310	305	305	290	285
	LQ	270	270	280	295	330	275	290	340	340	325	320	320	315	310	315	330	340	340	330	285	285	280	270	275
foF1	MED																								
	CNT																								
foE	MED							U 122.5	215	272.5	U 300	U 320	U 330	340	U 335	320	295	260							
	CNT							6	17	14	19	12	11	7	9	12	12	11	3						
h'E	MED							E	123	109	109	109	109	E 111	113	119	E 119	U 119							
	CNT							10	20	18	24	25	22	17	12	17	13	14	4						
foEs	MED		16.5	20	18					28	32.5	35	38.5	38.5	40	35.5	38.5	37.5	37.5	37	34	28.5	24	20.5	
	CNT	24	24	23	21	21	21	19	20	19	24	25	24	20	25	26	26	26	22	21	22	22	23	24	24

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. APRIL, 1961

TABLE 16

MAUI, HAWAII (20.8N, 156.5W) TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	46.5	45.5	39	32	26	25	26	56	75	89	101	112	125	131	133	138	134	126	108	76	D 61	58	52	50
	CNT	30	30	31	31	28	29	29	30	31	31	31	31	31	31	31	31	31	31	31	31	30	31	31	30
	UQ	62	57	48	38	31	29	32	63	80	94	105	117	129	139	144	145	143	135	119	102	86	79	69	64
	LQ	37	39	33	27	22	22	22	50	72	79	91	105	115	123	129	124	120	113	90	64	53	45	43	41
h'F2	MED										U 275	300	297.5	310	310	302.5	285	270	250						
	CNT										8	11	18	26	27	30	30	30	28						
	UQ										285	325	310	330	330	310	290	275	255						
	LQ										270	275	295	300	290	290	280	260	240						
h'F	MED	245	235	230	220	U 247.5	U 295	E 307.5	245	230	220	210	205	200	195	205	215	215	230	230	212.5	225	235	E 265	E 265
	CNT	31	31	31	29	28	29	30	31	31	30	29	30	29	29	29	30	30	30	31	30	29	31	31	31
	UQ	260	250	245	230	270	320	330	250	240	225	220	220	210	205	210	220	230	235	230	225	240	255	285	275
	LQ	235	230	220	210	220	255	285	240	225	210	200	200	190	190	190	205	210	220	220	205	220	230	240	245
(M3000)F2	MED	317.5	330	335	347.5	310	280	285	335	332.5	300	290	290	295	295	305	310	315	325	330	330	310	300	300	300
	CNT	30	30	31	30	27	27	29	29	30	31	31	31	31	31	30	31	31	31	31	29	28	30	28	28
	UQ	330	350	350	360	335	305	290	340	340	320	300	300	300	305	305	315	325	335	350	340	320	310	315	320
	LQ	305	320	325	320	280	270	270	325	320	290	280	280	285	290	300	305	310	320	330	320	300	275	275	290
foF1	MED												U 480	U 500	U 490	500									
	CNT										1	1	9	19	14	11	3								
foE	MED								200	270	310	340	355	370	365	360	340	310	265	200					
	CNT					2	1		27	31	29	27	23	26	25	25	27	26	25	17	3				
h'E	MED								125	111	109	107	107	107	107	107	107	109	E 114	E 125					
	CNT					2	1		27	31	31	31	31	30	31	31	30	30	28	16	3				
foEs	MED				13	16				28	33	37	38	39	38	40	37	34	30	23	22	20	18	17	16
	CNT	31	31	31	31	31	31	31	30	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. MARCH, 1961

TABLE 17

LA PAZ. BOLIVIA (16.5S, 68.1W) TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 102	D 95	90	625	465	40	32	585	88	100	995	88	885	D 985	1025	1125	1165	D 119	D 117	D 111	D 90	U 85	U 90	D 90
	CNT	3	8	10	10	12	13	11	16	15	17	18	13	12	16	16	14	14	14	14	14	11	3	3	3
	UQ	106	97	95	74	58	58	37	65	90	104	110	103	97	108	116	120	126	126	126	116	106	91	92	92
	LQ	96	93	77	52	34	24	19	57	82	93	87	83	84	90	94	105	106	113	104	90	75	80	84	87
h'F2	MED											U 300		U 320	U 330	U 320									
	CNT										3	7	3	6	7	7	3	2							
	UQ											310		335	380	370									
	LQ											290		310	310	310									
h'F	MED	2575	2375	2175	220	230	255	265	250	230	215	205	200	1975	200	200	195	190	U 2225	250	280	U 330	U 310		275
	CNT	14	16	16	15	13	13	13	17	16	17	18	13	12	15	14	12	12	14	14	14	7	5	4	7
	UQ	270	260	240	230	275	290	295	250	240	220	210	200	200	200	200	200	200	230	250	285	330	345		300
	LQ	250	220	210	210	220	235	240	240	220	210	200	200	190	190	195	190	190	210	245	275	300	280		235
(M3000)F2	MED		U 345	U 340		330	320	320	330	320	U 285	265	260	260	260	265	2725	280	U 280	U 2775	U 255				
	CNT	2	2	7	9	10	10	11	15	13	13	15	10	11	11	11	12	12	9	6	6	3	2	1	1
	UQ			355	345	340	330	350	330	320	310	275	260	265	270	275	280	290	295	300	270				
	LQ			325	325	315	300	285	315	300	270	260	255	255	250	260	265	270	270	270	245				
foF1	MED												U 490	500	500										
	CNT											1	5	6	8	3									
foE	MED								195	U 2675	U 310	U 340	U 365	U 3725	U 370	370	350	325	U 290	U 230					
	CNT								11	14	13	11	10	8	7	8	11	7	9	9	1				
h'E	MED								E 121	111	105	105	109	109	109	E 110	111	111	111	119					
	CNT								12	11	8	11	9	8	11	10	10	7	6	7	1				
foEs	MED						22		29	47	57	585	71	66	63	515	37	53	53	475	275				
	CNT	16	15	16	15	15	15	15	17	16	17	18	12	12	16	16	13	14	13	14	14	13	14	14	14

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. MARCH, 1961

TABLE 18

CONCEPCION, CHILE (36.6S, 73.0W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	60	58	585	585	48	38	495	68	81	88	101	111	117	119	120	117	102	99	88	72	68	68	66	62
	CNT	27	30	28	28	27	29	30	31	31	31	31	31	31	31	31	31	31	30	31	31	31	31	29	29
	UQ	65	66	64	65	51	44	56	72	86	103	113	121	130	134	130	131	121	107	100	84	74	70	72	68
	LQ	56	56	54	52	43	31	46	64	75	79	90	104	106	98	105	97	86	87	86	66	60	59	58	58
h'F2	MED										U 265	275	280	280	280	275	260	250	250						
	CNT							1	1	3	8	12	20	23	25	26	31	21	17	1					
	UQ										275	290	290	290	280	290	270	260	260						
	LQ										255	265	270	270	270	260	260	250	240						
h'F	MED	310	300	280	240	230	260	240	230	225	U 220	2075	U 210	U 210	U 210	U 2225	230	E 235	240	230	240	280	290	305	305
	CNT	30	31	31	31	31	31	30	30	31	31	30	31	30	28	28	28	27	28	31	31	31	31	31	30
	UQ	320	320	290	270	260	300	250	235	230	230	220	240	225	225	240	240	240	250	250	250	290	315	330	330
	LQ	290	280	265	230	210	245	230	220	220	210	200	200	195	200	210	230	230	240	230	230	250	275	280	290
(M3000)F2	MED	275	280	290	330	320	290	320	340	330	320	310	315	310	315	320	330	330	335	330	310	280	275	280	275
	CNT	27	30	28	28	27	28	30	31	31	31	31	31	31	31	31	31	31	30	31	31	27	29	26	26
	UQ	280	290	305	340	340	305	340	350	340	330	320	320	320	320	320	340	340	340	340	320	290	285	290	280
	LQ	265	270	285	305	300	270	310	330	320	305	305	310	300	305	310	320	320	330	320	300	270	270	270	270
foF1	MED																								
	CNT																								
foE	MED							1625	240	U 290	U 320	U 330	3475	U 355	U 350	340	320	285	U 240						
	CNT							20	26	23	19	15	20	15	17	15	24	15	7						
h'E	MED							E 159	U 119	109	109	109	109	U 109	E 117	E 119	117	E 119	E 119						
	CNT							21	29	28	29	30	30	31	26	28	29	31	17	1					
foEs	MED	21	20	20	15	17	17	22	26	32	38	38	38	40	40	39	37	34	32	35	34	35	26	28	20
	CNT	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. MARCH, 1961

TABLE 19

MAUI, HAWAII (20.8N, 156.5W) TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	38	38	33	295	24	22	21	44	705	855	1025	115	1235	1295	1355	1345	125	108	87	605	D 50	46	45	42
	CNT	25	27	27	26	28	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	25	26
	UQ	44	43	39	36	25	25	24	46	75	90	114	128	132	136	144	148	139	120	101	80	54	52	52	50
	LQ	34	33	29	23	20	19	20	42	65	82	97	108	115	118	124	124	108	98	74	52	40	41	40	35
h'F2	MED										U 260	290	2875	285	295	290	270	255	U 240						
	CNT										8	19	24	25	24	27	24	19	9						
	UQ										270	300	295	300	310	295	280	265	250						
	LQ										260	280	280	280	280	280	260	240	230						
h'F	MED	U 265	245	230	E 230	E 2375	E 255	E 255	260	2325	2175	205	E 215	205	195	200	210	220	230	220	U 210	E 220	245	250	240
	CNT	27	28	28	25	26	24	24	28	28	28	28	27	25	25	27	27	27	27	28	28	27	26	26	25
	UQ	280	260	245	240	250	295	335	270	240	230	220	220	210	205	220	215	230	240	225	220	240	270	265	260
	LQ	240	240	220	215	215	230	270	250	210	210	200	200	195	190	195	195	210	225	210	205	210	230	230	230
(M3000)F2	MED	3025	330	340	350	325	290	280	3125	335	315	3075	315	3075	300	305	315	3175	330	350	U 330	325	290	310	310
	CNT	24	26	27	25	27	26	26	28	26	28	28	28	28	28	28	27	28	28	28	27	24	25	25	26
	UQ	320	350	365	370	360	320	290	330	340	330	320	320	315	310	315	320	320	340	350	340	335	310	320	320
	LQ	290	310	325	340	295	270	270	300	320	295	300	300	300	295	300	305	310	320	335	320	305	280	290	295
foF1	MED												U 470	U 490	U 490	U 480									
	CNT									1			5	8	7	5	2								
foE	MED								165	235	290	330	350	360	3575	350	3325	300	2575	D 190					
	CNT							1	14	25	25	25	23	19	22	23	22	23	22	15	1				
h'E	MED								E 159	115	109	107	107	107	106	106	107	109	113	127	E				
	CNT								12	25	26	26	26	26	26	26	27	23	20	11	5				
foEs	MED	17					15	17				37	385	405	395	44	395	34	305	26	24	21	20	20	155
	CNT	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. FEBRUARY, 1961

TABLE 20

LA PAZ, BOLIVIA (16.5S, 68.1W) TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 91	U 88	75	55	475	38	35	68	89	100	108	110	103	96	101	103	112	U 1145	112	U 109	D 975	U 93	90	905
	CNT	8	9	12	17	20	17	20	23	23	23	25	23	25	25	24	24	23	24	24	23	24	12	10	10
	UQ	94	96	84	69	68	44	40	72	99	105	112	116	116	117	118	124	125	128	120	116	106	97	91	94
	LQ	88	82	68	52	41	27	29	64	82	94	101	90	90	92	96	98	100	101	108	99	89	88	90	89
h'F2	MED											2	2	U 330	U 345			2	1						
	CNT													6	5	3	2								
	UQ													380	360										
	LQ													315	320										
h'F	MED	2925	250	230	230	235	245	260	245	230	215	205	200	200	200	195	195	195	215	250	275	330	350	325	305
	CNT	18	21	21	23	22	20	21	23	23	23	23	22	22	23	24	20	19	21	23	22	21	15	11	16
	UQ	350	310	260	245	260	260	300	250	235	220	210	205	205	200	200	200	210	230	260	280	340	365	345	330
	LQ	280	240	220	215	225	235	240	240	225	210	200	200	195	190	190	190	190	200	240	270	320	310	300	290
(M3000)F2	MED	U 3125	U 310	330	320	325	320	320	330	320	300	270	U 260	250	255	255	255	260	U 255	260	U 260	2425	U 2575	255	U 270
	CNT	6	9	11	17	19	16	18	22	20	20	19	18	14	19	22	22	19	21	21	19	18	8	7	7
	UQ	320	330	335	335	330	340	325	335	330	315	295	265	260	265	265	270	270	275	275	265	250	260	265	280
	LQ	285	290	320	315	305	310	290	315	315	280	260	240	240	245	250	250	250	250	250	260	235	245	250	265
foF1	MED											3	4	500	500	490									
	CNT													9	11	6									
foE	MED								200	280	U 330	U 360	U 380	U 380	U 3875	U 3775	U 360	U 3375	U 300	U 250	180				
	CNT								19	16	16	16	11	6	10	12	18	14	17	15	5				
h'E	MED								123	113	109	105	105	109	111	111	111	111	111	115	151				
	CNT								20	15	11	11	11	5	7	13	12	14	15	13	5				
foEs	MED								28	44	56	57	61	60	60	57	51	58	57	52	275				
	CNT	23	24	23	22	21	21	23	23	23	23	24	24	22	25	25	23	21	22	23	22	23	24	23	22

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. FEBRUARY, 1961

TABLE 21

GODHAVN. GREENLAND (69.3N. 53.5W) TIME 45.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	CNT	325	30	29	31	29	36	385	39	30	37	46	45	53	475	51	51	45	42	43	415	40	37	32	36
	UQ	20	24	21	17	11	7	2	2	2	9	12	13	16	14	18	21	15	18	19	18	16	11	19	15
	LQ	36	34	36	35	39	42		7		39	52	60	57	54	60	58	50	50	50	48	46	40	44	40
		28	28	28	28	26	28				35	37	42	46	43	45	42	37	38	37	36	36	30	30	31
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	U		U	U								U	U	U	U	U	U	U		U				
	CNT	300	3175	2975	3025								320	300	320	305	320	320	320		300			U	
	UQ	9	10	6	8	3		1		1	4	3	5	5	9	6	8	5	6	4	5	4		310	
	LQ	310	325	310	315								330	310	330	310	330	330	320		320			8	3
		300	315	290	280								305	295	310	290	300	300	310		290			320	
																								300	
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED								20								32	24	45	385	43	40	30		
	CNT	25	28	26	27	25	27	25	25	25	26	25	30	31	29	29	29	29	29	28	30	30	28	28	27

SWEEP 1.6 MC TO 20.0 MC IN 18 SECONDS. JANUARY, 1961

TABLE 22

MAUI, HAWAII (20.8N. 156.5W) TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	395	42	345	27	23	20	21	43	78	92	1135	114	118	133	134	125	112	112	785	49	495	535	52	465
	CNT	30	29	30	31	27	27	29	31	31	31	30	31	31	31	31	31	31	31	30	30	30	30	29	30
	UQ	47	52	42	38	25	25	24	44	83	111	123	126	137	147	143	135	132	126	90	54	57	64	56	53
	LQ	37	31	27	23	19	19	18	39	71	83	95	96	107	118	124	113	96	87	66	42	43	52	38	38
h'F2	MED									U															
	CNT									245	2575	2675	260	290	295	2825	260	2525							
	UQ									5	10	24	14	23	28	28	27	20	2						
	LQ									250	270	280	280	310	305	290	270	265							
										240	240	255	255	270	280	265	250	250							
h'F	MED	E			E	E		E													U	E		U	E
	CNT	265	2525	235	2375	260	2825	305	270	240	220	215	200	190	200	220	220	230	235	210	210	2425	235	230	2525
	UQ	29	30	30	30	28	28	30	31	31	31	30	30	29	27	30	28	28	30	30	29	28	30	30	30
	LQ	280	265	245	270	315	340	330	280	245	230	220	205	210	220	230	230	240	240	220	225	260	250	250	280
		250	235	225	220	235	260	270	265	215	210	210	195	185	190	200	210	220	230	205	200	230	215	225	230
(M3000)F2	MED	2975	320	335	320	300	2875	290	300	335	320	325	300	295	305	310	310	320	345	355	325	310	3175	305	305
	CNT	28	28	30	30	25	26	29	31	31	31	30	31	31	31	31	31	31	31	30	25	30	28	29	28
	UQ	310	345	350	345	325	310	300	315	350	340	335	320	305	310	315	320	335	350	360	330	325	345	335	325
	LQ	285	300	315	290	275	270	270	290	320	305	310	290	290	295	300	305	310	335	340	300	295	300	280	290
foF1	MED												U	490	500	U									
	CNT											1	480	9	6	500	1								
													6			5									
foE	MED								1525	240	290	325	345	350	3575	345	D	300	245						
	CNT								18	30	28	25	24	26	22	23	335	19	16	1					
																	21								
h'E	MED								E																
	CNT								161	115	109	109	107	107	105	107	107	109	113						
									10	28	31	30	30	29	29	28	29	25	21	3					
foEs	MED	18	13	13	17		15		18		32	385	40	42	43	44	40	35	37	36	36	34	40	31	24
	CNT	31	31	31	31	31	31	31	31	31	31	30	31	31	31	31	31	31	31	31	31	31	31	31	31

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. JANUARY, 1961

TABLE 23

LA PAZ, BOLIVIA (16.5S. 68.1W) TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U										U	O	O	O	O	O	D		O	D	O		D	O
	CNT	120	1145	925	70	66	62	63	95	116	130	1345	1265	1215	110	118	124	120	124	110	104	985	100	109	115
	UQ	15	14	14	19	19	18	21	21	19	21	20	20	20	21	20	20	21	21	22	21	16	13	12	11
	LQ	124	123	104	86	86	86	87	106	117	134	140	140	130	139	137	136	135	131	120	115	111	115	116	122
		112	92	70	60	59	51	54	89	113	126	130	109	102	101	104	110	112	114	108	93	90	90	93	110
h'F2	MED																								
	CNT												3	2	1		2	1							
	UQ																								
	LQ																								
h'F	MED	250	230	230	245	2475	245	250	245	230	220	215	210	200	205	2075	2125	U							
	CNT	19	21	23	21	18	19	22	21	20	21	20	19	19	20	18	18	235	240	260	310	310	2925	265	255
	UQ	285	240	250	280	265	270	260	250	235	220	215	215	215	210	210	220	19	19	21	21	14	14	13	15
	LQ	235	215	220	230	230	235	240	240	230	215	210	205	200	190	200	200	260	250	265	320	360	320	320	280
																		215	240	255	290	300	270	245	230
(M3000)F2	MED	300	3275	310	305	305	2975	300	325	315	290	265	U 265	U 250	250	U 245	U 240	U 240	U 2525	U 240	U 245	U 250	U 2575	U 270	U 280
	CNT	14	14	14	18	19	16	21	18	17	19	13	9	9	10	13	11	10	16	13	10	11	8	7	7
	UQ	315	345	320	315	310	330	320	335	320	295	290	280	260	255	260	250	245	255	255	270	265	265	300	295
	LQ	295	310	290	290	275	285	290	315	300	280	250	250	245	240	235	235	240	240	240	235	225	255	265	270
foF1	MED																								
	CNT																								
foE	MED								240	300	350	U 380	U 395	U 400	U 400	U 385	U 360	U 3325	U 2825	2175					
	CNT							1	15	15	13	9	9	9	6	6	6	8	12	8					
h'E	MED								119	115	111	109	109	111	111	109	109	111	111	E 125					
	CNT							1	18	20	19	14	13	10	7	8	13	12	16	7					
foEs	MED	27						24	29	34	50	64	60	695	60	615	56	60	56	47					
	CNT	23	23	23	22	22	22	21	21	20	21	20	20	20	21	20	21	21	21	22	21	21	22	22	22

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. OCTOBER, 1960

TABLE 24

BOGOTA, COLOMBIA (4.5N. 74.2W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	82	745	68	62	555	445	545	71	80	90	D 95	D 100	O 103	O 110	O 118	D 120	O 120	U 118	U 112	108	O 104	D 95	D 90	D 90
	CNT	29	28	28	29	28	26	28	30	30	31	30	30	30	29	28	26	27	28	29	29	29	27	28	28
	UQ	94	82	76	73	62	53	56	77	86	98	100	110	116	126	128	130	132	127	130	123	119	120	110	99
	LQ	76	66	62	56	45	38	52	68	71	76	87	95	99	105	110	110	110	107	106	96	92	90	86	80
h'F2	MED																E	U							
	CNT								2	3	3	4325	410	4025	395	3975	370	360							
	UQ											10	21	24	23	20	19	9	2						
	LQ											485	450	430	430	410	385	390							
												420	380	380	375	355	335	330							
h'F	MED	245	240	2425	240	230	250	260	235	215	E 220	210	E 210	E 2175	E 2275	E 220	E 230	E 235	E 250	270	U 260	U 260	260	260	2575
	CNT	29	30	30	30	30	29	29	30	31	31	31	24	24	22	21	22	23	28	29	29	29	27	29	28
	UQ	260	265	270	270	255	275	270	240	225	220	220	225	240	265	245	250	240	265	275	290	285	270	270	280
	LQ	230	225	230	230	220	230	245	225	205	205	200	200	210	205	210	210	230	240	260	240	240	240	255	240
(M3000)F2	MED	300	290	3075	310	3125	2925	300	310	2925	260	235	U 250	U 2475	U 260	U 270	U 265	U 265	U 270	U 270	U 2725	U 280	U 280	U 285	U 2975
	CNT	27	27	28	29	28	26	27	30	26	20	13	7	6	8	8	10	15	15	17	20	13	13	19	20
	UQ	320	310	320	330	330	325	320	330	305	280	240	250	260	265	280	270	275	280	290	290	285	290	290	305
	LQ	285	280	290	290	285	280	280	305	280	250	225	235	245	245	260	260	260	260	260	260	260	270	275	280
foF1	MED											570	U 550	540	540	U 555	U 520								
	CNT									1	4	5	10	11	13	8	5	3							
foE	MED							U 190	275	340	3825	U 400	U 400	O 410	D 400	U 400	U 390	O 3425	270						
	CNT							7	23	23	16	16	7	10	9	13	9	8	13	2					
h'E	MED							U 149	E 112	109	U 112	113	111	E 112	111	109	109	109	U 111						
	CNT							7	30	27	24	21	13	12	15	18	17	21	17	2					
foEs	MED						17	20					44	O 45	50	D 45	46	45	37	32	23	24			
	CNT	30	30	30	30	30	29	29	30	29	28	25	18	19	21	23	25	27	28	28	28	28	28	29	29

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. AUGUST, 1960

TABLE 25

LA PAZ. BOLIVIA (16.5S, 68.1W) TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	88	81	70	58	52	42	42	58	92	109	Q 116	D 112	D 104	105	1025	1035	102	Q 995	91	90	83	84	865	88
	CNT	26	26	27	28	27	26	25	27	27	29	29	29	29	29	28	28	30	30	29	29	27	25	22	21
	UQ	93	90	77	66	57	48	50	69	96	115	121	123	119	112	109	109	108	105	100	91	90	90	90	92
	LQ	80	72	65	54	42	32	30	55	89	104	110	100	98	96	96	94	93	90	89	80	77	79	83	80
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MEQ	220	215	220	220	235	2425	260	260	240	2225	210	205	200	200	200	200	220	240	270	300	330	2675	240	230
	CNT	29	29	30	29	29	30	25	27	27	30	30	29	29	29	28	28	29	30	29	28	27	24	26	26
	UQ	220	220	230	230	245	275	295	270	240	230	220	210	200	200	200	210	230	260	285	320	350	300	265	230
	LQ	210	210	210	210	230	235	245	260	230	220	210	200	200	190	190	200	210	230	260	290	290	250	225	220
(M3000)F2	MEQ	320	3225	320	325	320	315	310	305	3075	285	270	250	240	235	235	240	240	2475	2525	255	2475	265	280	310
	CNT	25	24	26	27	26	26	23	27	26	29	27	25	25	23	27	28	28	24	22	19	24	23	16	18
	UQ	325	330	330	330	330	325	320	320	320	300	275	260	245	250	245	250	250	250	260	260	260	280	310	320
	LQ	305	310	310	300	305	300	280	290	300	275	260	240	230	225	225	230	230	230	240	240	230	250	270	300
foF1	MEQ																								
	CNT																								
foE	MEQ								1825	280	330	U 360	U 3725	U 380	U 380	U 385	U 3625	U 335	U 2875	215					
	CNT							2	22	21	24	20	16	7	7	6	12	13	14	13					
h'E	MED								E 141	111	109	109				105		105	111	121					
	CNT							3	18	19	13	6	4			5	2	5	5	6					
foEs	MEQ	325	325			20			36	45	55	70	73	75	75	72	74	70	60	47			235	22	30
	CNT	30	30	30	29	30	30	28	26	27	30	30	29	29	29	28	28	30	30	29	28	28	28	29	28

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. AUGUST, 1960

TABLE 26

FT. MONMOUTH, NEW JERSEY (40.4N, 74.1W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	62	58	50	46	42	43	48	52	54	56	58	61	605	615	63	655	695	715	74	76	76	74	68	655
	CNT	28	28	28	26	27	29	27	27	28	29	30	29	30	30	29	30	30	30	29	29	29	30	29	30
	UQ	65	62	57	52	48	50	59	61	66	66	66	72	72	71	72	74	74	77	80	84	83	78	73	70
	LQ	52	50	47	40	36	41	46	47	52	54	56	56	58	58	58	62	62	64	66	68	70	70	63	60
h'F2	MED							365	460	430	424	425	4315	434	410	422	405	369	348	308					
	CNT						1	12	17	26	27	30	28	30	29	29	30	28	21	11					
	UQ							415	575	535	538	535	510	530	484	495	440	428	375	332					
	LQ							318	366	362	350	373	360	368	380	367	360	349	315	305					
h'F	MEQ	E 279	U 279	E 281	U 2825	E 293	260	2385	225	220	212	2095	210	205	210	218	218	226	228	U 249	267	259	260	U 275	280
	CNT	30	30	30	30	29	29	28	27	27	29	30	29	29	30	29	30	30	29	29	29	29	30	30	30
	UQ	312	320	319	315	318	270	245	229	230	220	215	218	214	220	221	230	240	243	267	278	272	270	300	300
	LQ	267	265	260	270	270	245	228	215	211	200	195	200	198	200	210	212	218	221	235	255	248	252	260	270
(M3000)F2	MED	270	2725	275	275	275	290	285	275	270	270	2675	265	2625	265	265	270	275	275	280	285	285	280	270	265
	CNT	27	28	25	26	27	29	27	27	28	29	30	29	30	30	29	30	30	30	29	29	29	30	29	30
	UQ	280	285	285	285	280	295	300	290	285	290	285	285	280	275	275	280	280	285	285	295	290	285	280	275
	LQ	260	260	260	265	265	280	265	255	250	245	240	250	250	255	250	260	265	265	275	280	275	270	260	260
foF1	MED							380	440	460	480	500	510	520	520	510	490	480	440						
	CNT							8	17	20	25	25	28	27	29	28	26	19	15						
foE	MED						195	270	3125	U 3375	U 360	375	U 380	390	3825	380	365	345	310	255					
	CNT						8	13	18	12	14	8	8	7	8	13	20	24	18	11	3				
h'E	MEQ						U 121	1125	110	108	1075	1065	1075	108	108	1085	110	110	1105	112	E 124				
	CNT						21	28	27	28	30	30	30	29	28	28	29	30	30	29	8				
foEs	MED							29	33	37	38	405	40	395	40	38		36	34	33	33	28		305	
	CNT	30	30	30	30	29	29	28	27	29	30	30	30	30	29	29	30	30	30	30	29	29	30	30	30

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. JUNE, 1960

TABLE 27

FT. MONMOUTH, NEW JERSEY (40.4N, 74.1W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	59	55	49	465	395	45	545	61	62	59	61	63	66	67	695	71	72	72	75	74	74	69	63	D 60
	CNT	26	26	24	22	20	27	26	27	29	30	30	30	29	30	30	30	31	31	31	31	31	30	29	30
	UQ	62	59	54	50	46	50	60	66	68	73	72	74	77	78	79	80	79	83	87	85	81	72	70	65
	LQ	54	49	44	40	36	40	47	52	53	56	57	56	56	61	61	62	62	66	65	70	69	65	62	57
h'F2	MEQ							U 405	380	3625	430	420	444	410	397	390	380	353	320	U 305					
	CNT						3	8	19	26	25	28	28	27	30	29	29	29	23	7					
	UQ							536	500	440	514	530	509	450	470	440	410	392	355	365					
	LQ							345	325	325	345	382	363	368	338	343	337	318	300	275					
h'F	MEQ	E 285	E 300	E 300	E 300	E 305	E 275	245	225	220	215	205	2075	212	217	222	220	2285	U 367	U 250	255	258	260	E 275	E 285
	CNT	30	30	30	30	29	27	27	27	29	29	30	30	27	28	29	29	30	30	31	31	31	31	31	31
	UQ	305	310	320	325	330	280	248	233	230	224	218	220	230	226	228	228	243	250	260	265	265	275	285	300
	LQ	275	282	280	285	270	256	235	219	210	208	200	200	200	209	215	215	222	228	245	250	248	253	260	265
(M3000)F2	MED	275	270	275	275	280	2925	2975	290	285	275	270	265	270	270	275	280	280	285	295	295	285	280	275	275
	CNT	25	24	20	21	18	26	26	27	29	29	29	29	29	30	30	30	31	31	31	31	31	30	29	26
	UQ	280	280	285	280	285	300	310	305	305	295	280	280	280	280	280	285	285	295	300	300	290	285	285	280
	LQ	270	260	260	265	265	280	285	260	255	250	250	250	250	260	265	270	270	280	280	290	280	270	270	270
foF1	MED							380	430	460	480	490	520	520	515	510	500	470	430						
	CNT						1	6	16	23	25	25	27	24	26	25	24	20	10	1					
foE	MED								305	U 335	U 355	U 370	U 385	U 390	U 380	U 370	360	335	295						
	CNT							4	17	21	15	10	13	13	13	19	25	22	17	3					
h'E	MED							U 117	115	110	110	110	110	110	110	111	112	114	115	E 127					
	CNT						2	18	25	30	29	28	27	28	28	28	28	28	27	8	1				
foEs	MEQ								32	35	375	39							33						
	CNT	30	30	30	30	30	27	27	27	30	30	30	30	30	30	30	30	31	31	31	31	31	31	31	31

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. MAY, 1960

TABLE 28

NATAL, BRAZIL (5.7S, 35.2W) TIME 30.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ							U 32	U 78	U 100	U 120	U 121	U 114		U 111	U 116		U 115							
	CNT	1	2	2	3	4	4	5	5	5	5	6	5	4	6	6	4	5	3	4	3	3	1	1	
	UQ							36	78	109	122	127	118		120	122		122							
	LQ							28	76	94	108	113	109		104	108		114							
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MEQ	U 280	U 280	U 250	U 230	U 240	U 230	U 245	U 250		U 225							U 225			U 300			U 370	E 360
	CNT	5	5	5	5	5	5	5	5	4	5	4	3	2	4	4	4	5	4	4	5	4	4	5	5
	UQ																								
	LQ																								
(M3000)F2	MED							U 305	U 330			U 250	U 240		U 240	U 250		U 250							
	CNT	2	3	2	2	4	4	5	5	4	4	6	5	4	5	6	4	5	3	4	3	2	1	1	
	UQ																								
	LQ																								
foF1	MEQ																								
	CNT																								
foE	MED									U 300															
	CNT								4	5	3	2	1	1	1		1		2						
h'E	MED																								
	CNT								1	3	2	2	1	1	1		1								
foEs	MEQ														U 55	U 53		U 40							
	CNT						1			2	4	3	4	4	5	5	4	5	2	3	1	1			

SWEEP 1.0 MC TO 25.0 MC IN 35 SECONDS. MAY, 1960

TABLE 29

NATAL, BRAZIL 15.7S, 35.2W) TIME 30.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 86	U 86	U 69	U 65	65	59	55	90	115	U 125	U 130	U 118	U 122	U 125	U 128	U 128	U 126	U 125	U 125	U 110	U 94	U 93	U 88	U 89
	CNT	13	17	21	21	22	21	21	24	26	23	25	20	22	23	20	21	20	23	22	21	8	7	7	10
	UQ	90	90	80	76	70	68	66	94	120	130	132	138	130	130	138	138	135	138	135	122	116	115	103	95
	LQ	78	73	64	58	54	50	44	84	112	123	120	115	116	122	120	115	118	115	116	94	90	71	68	70
h'F2	MED																								
	CNT											1		1											
	UQ																								
	LQ																								
h'F	MED	245	235	245	250	255	250	245	260	240	230	220	210	U 205	200	U 210	205	230	250	280	330	U 370	385	335	290
	CNT	25	25	26	25	24	23	23	24	24	21	16	12	8	13	8	11	19	23	24	26	25	24	21	25
	UQ																								
	LQ																								
(M3000)F2	MED	U 295	U 310	U 300	U 305	300	310	310	310	300	U 270	U 240	U 245	U 240	U 245	U 240	U 240	U 240	U 245	U 240	U 230	U 220	U 240	U 255	U 285
	CNT	12	16	21	20	21	21	20	23	25	21	19	18	18	20	17	20	17	21	19	18	8	7	7	10
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED								U 230	305	U 350						U 365	U 340	290						
	CNT								16	15	13	3		1			5	14	15	3					
h'E	MED								123	119	113						111	113	115						
	CNT								6	11	8	1	1	1	1		9	11	12	1					
foEs	MED				E	U 35	U 39	U 42	U 40	U 48	U 58	U 59	U 58	U 56	U 58	U 56	U 56	U 51	U 50	U 41					U 42
	CNT	3	2	2	5	9	9	11	24	26	24	23	22	21	24	19	23	22	23	11	4	1	2	4	6

SWEEP 1.0 MC TO 25.0 MC IN 35 SECONDS. APRIL, 1960

TABLE 30

TILCUMAN, ARGENTINA (26.9S, 65.4W) TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	175	155	U 157	139	78	55	49	83	105	121	121	137	143	U 144	U 154	U 165	U 171	U 172	U 170	U 160	U 153	U 165	U 171	160
	CNT	9	14	13	15	16	16	13	17	14	16	19	17	16	15	15	14	13	13	11	5	4	4	10	14
	UQ																								
	LQ																								
h'F2	MED										U 260	U 270	U 380	U 340	U 365	375	365	345	U 310						
	CNT										3	5	4	9	10	12	13	12	5						
	UQ																								
	LQ																								
h'F	MED	255	235	225	215	200	225	245	220	220	220	210	225	225	230	235	235	240	245	240	275	295	260	265	260
	CNT	22	20	20	20	20	20	18	18	17	15	14	14	10	10	12	14	14	19	17	19	18	19	20	20
	UQ																								
	LQ																								
(M3000)F2	MED	U 315	340	355	350	340	305	305	340	340	335	310	295	295	U 285	U 280	U 285	U 285	U 290	U 295	U 295	U 265	U 280	U 290	300
	CNT	8	13	13	11	15	16	14	16	15	15	19	17	14	14	14	13	11	9	9	4	2	3	10	11
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED								230	295									U 290	U 210					
	CNT								7	6									2	3					
h'E	MED								131	101	101	101	U 101	U 115	U 115		U 101	U 101	U 101	U 121					
	CNT								9	11	10	8	2	1	2		1	2	5	2					
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS. MARCH, 1960

TABLE 31

TUCUMAN, ARGENTINA (26.9S, 65.4W) TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 137	143	U 150	100	87	74	75	95	105	117	122	129	138	142	145	152	U 151	150	150	150	149	U 150	U 152	150
	CNT	17	12	15	17	20	18	18	19	19	17	13	17	17	18	19	13	16	17	19	13	10	5	5	9
	UQ																								
	LQ																								
h'F2	MED											U 410	U 400	410	U 400	U 390	385	340	355	U 380					
	CNT											1	1	5	5	11	6	11	8	3					
	UQ																								
	LQ																								
h'F	MED	290	280	255	225	235	275	275	230	220	220	220	220	230	225	U 210	225	230	230	245	275	340	330	320	310
	CNT	24	25	22	22	22	22	22	22	21	20	14	12	12	8	5	11	13	17	21	22	21	21	20	21
	UQ																								
	LQ																								
(M3000)F2	MED	285	295	320	340	290	280	285	310	310	290	280	280	270	285	275	295	290	290	285	275	U 255	U 265	U 275	U 285
	CNT	17	15	16	12	12	11	14	10	6	2	2	5	12	9	12	14	17	16	17	14	16	16	13	17
	UQ																								
	LQ																								
foF1	MED											U 620	U 680		U 650	U 640			U 650						
	CNT											1	1		1	1			1						
foE	MED							180	255		U 360								U 295	260	U 180				
	CNT							5	14	7	1								2	6	3				
h'E	MED							U 141	105	101	99	99	U 99		U 99	99		U 99	105	111	U 99				
	CNT							3	12	15	14	10	5		1	2		3	10	11	1				
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS. FEBRUARY, 1960

TABLE 32

TUCUMAN, ARGENTINA (26.9S, 65.4W) TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	103	102	90	83	75	65	74	91	102	105	115	125	130	133	136	140	142	131	126	131	130	115	113	109
	CNT	15	17	20	22	23	19	22	22	17	18	11	12	17	14	25	24	23	18	20	12	7	16	14	13
	UQ																								
	LQ																								
h'F2	MED										U 320	U 340	395	390	415	410	385	375	370	U 385	U 470				
	CNT										1	1	8	11	11	20	24	21	16	4	2				
	UQ																								
	LQ																								
h'F	MED	295	295	280	270	250	275	250	230	225	220	210	210	U 245	265	280	250	235	250	245	280	365	395	380	345
	CNT	22	24	24	24	24	24	24	23	19	16	12	6	4	7	7	11	10	18	22	21	22	21	19	21
	UQ																								
	LQ																								
(M3000)F2	MED	280	275	285	280	285	285	290	290	285	270	250	260	260	265	260	270	275	275	265	255	240	235	245	260
	CNT	13	12	14	17	22	18	22	21	12	13	7	12	17	13	22	22	20	17	18	11	7	10	10	11
	UQ																								
	LQ																								
foF1	MED										U 610	U 590	U 630	U 650	U 620	630	630	610	580						
	CNT										4	3	2	2	3	6	11	13	13						
foE	MED							210	290		U 410	U 430						U 390		280	U 210				
	CNT							12	10		1	1						1		6	3				
h'E	MED						U 105	121	101	101	101	101						U 105	105	105	U 125				
	CNT						2	11	17	17	11	5						4	9	11	4				
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS. JANUARY, 1960

TABLE 33

RESOLUTE BAY, CANADA (74.7N, 94.9W) TIME 70.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	48	48	46	40	36	38	36	33	44	52	53	50	60	61	62	61	60	56	48	56	49	50	46	48
	CNT	30	30	30	30	30	30	30	30	30	30	29	29	29	30	30	30	30	30	30	30	30	30	30	30
	UQ																								
	LQ																								
h'F2	MED																								
	CNT										1				1										
	UQ																								
	LQ																								
h'F	MED	280	280	285	290	295	300	300	300	290	285	280	290	280	260	270	260	270	280	290	290	290	280	290	280
	CNT	30	30	29	29	30	29	28	28	30	29	29	30	30	30	30	30	29	30	29	30	30	30	30	30
	UQ																								
	LQ																								
(M3000)F2	MED	260	260	260	260	260	250	250	250	250	260	260	260	260	260	260	260	260	250	260	250	250	260	260	260
	CNT	20	21	22	21	22	22	19	20	22	19	19	18	20	17	24	17	23	25	20	22	23	23	19	21
	UQ																								
	LQ																								
foF1	MED																								
	CNT										1				1										
foE	MED										140	140	140	140	140	130	125								
	CNT	3	1	1	4	4	4	3	4	4	10	18	18	19	21	21	10	2	3	2	2	1	1	1	1
h'E	MED											U	U		U	U									
	CNT	2		1	2	1	1	1	1	2	2	110 5	105 7	110 10	105 8	110 6	3	1	1	1	1		1	1	1
foEs	MED	10	10	10	10	10	10	10	10	11	14	14	14	14	14	13	12	11	11	10	11	11	10	11	11
	CNT	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

SWEEP 1. MC TO 25.0 MC IN 27 SECONDS. NOVEMBER, 1959

TABLE 34

GENOA (MONTE CAPELLINO), ITALY (44.6N, 9.0E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	49	50	48	45	44	42	36	44	84	104	120	130	126	123	128	131	128	115	90	73	64	55	50	50
	CNT	27	27	27	28	28	28	26	27	26	28	29	26	27	27	28	28	27	28	29	27	27	29	28	27
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	280	295	275	285	275	255	245	250	225	225	225	220	225	225	225	230	225	220	220	225	235	245	265	280
	CNT	24	25	26	28	27	28	27	27	28	29	29	29	29	28	28	27	27	28	28	29	28	28	28	26
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED									190	260	290	310	320	320	310	280	230	170						
	CNT									22	28	25	22	24	26	27	27	25	12						
h'E	MED																								
	CNT																								
foEs	MED	E	E	E	E	E	E	E	E	G	C		32	34	38	34	G	G		30	30	34	30	E	E	E	E
	CNT	26	27	28	28	27	28	28	28	28	28		29	29	27	28	28	27		27	28	29	29	29	29	29	26

SWEEP 1. MC TO [illegible] MC IN 5 MINUTES. AUTOMATIC OPERATION. NOVEMBER, 1959

TABLE [illegible]

ROME, ITALY (41.8N, 12.5E)

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	49	45	49	46	46	42	37	62	90	113	123	120	125	123	124	122	118	98	84	64	58	51	47	46
	CNT	29	28	26	28	28	28	29	27	17	16	17	19	21	25	19	22	18	14	14	22	27	26	25	22
	UQ	52	52	52	50	49	45	40	67	100	126	130	128	128	128	130	124	124	114	89	66	64	57	52	50
	LQ	44	44	44	44	42	38	34	54	87	125	120	117	121	116	116	117	114	90	70	61	50	45	42	43
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	310	300	300	295	270	260	260	240	240	240	240	230	235	240	240	240	240	230	225	240	250	260	290	290
	CNT	24	28	24	27	29	24	29	29	24	28	28	26	27	24	24	30	30	29	29	29	29	24	28	27
	UQ	340	325	305	315	340	275	290	255	240	240	240	230	240	240	250	250	240	230	240	250	260	290	300	330
	LQ	280	285	270	270	265	255	240	240	230	230	240	225	222	240	240	240	235	210	220	230	240	240	270	270
(M3000)F2	MED	260	270	270	280	280	280	280	310	330	330	335	32	305	300	300	305	315	315	315	300	290	280	260	265
	CNT	[illegible]	23	26	28	28	27	24	27	14	14	19	14	18	23	17	22	16	14	11	23	27	26	24	20
	UQ	270	280	280	285	285	310	290	255	335	340	340	335	315	310	305	315	32	320	320	300	310	295	275	295
	LQ	250	250	260	260	260	255	265	305	315	320	325	310	300	290	300	305	305	315	310	295	275	270	260	290
foF1	MED																								
	CNT																								
foE	MED								180	230	280	310	330	U 330	U 330	310	280	230	180						
	CNT								24	29	25	16	13	18	17	16	25	22	8						
h'E	MED								U 210	135	122	117	110	115	110	110	120	130							
	CNT								5	29	28	27	27	29	29	26	24	21							
foEs	MED																								
	CNT	29	29	29	29	29	29	29	29	29	28	28	28	29	29	29	30	30	29	29	29	29	29	29	29

SWEEP 1.4 MC TO 15.0 MC IN 5 MINUTES. AUTOMATIC OPERATION. NOVEMBER, 1959

TABLE 36

MUNDARING, W. AUSTRALIA (32.0S, 116.2E) TIME 120.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D 40	D 41	D 42	D 41	D 40	D 43	D 46	57	D 72						D 75	D 75	U 76	D 74						
	CNT	7	7	9	11	11	11	11	9	6	2	3	3	2	3	5	6	6	5	1	1	1	2	3	4
	UQ																								
	LQ																								
h'F2	MED								330				370			345	345								
	CNT							4	7	1	1	4	9	3	4	10	5	3	1	2					
	UQ																								
	LQ																								
h'F	MED	F 300	E 300	E 300	U 285	U 275	U 290	250	240	235	220	210	210	220	240	230	225	230	245	250	250	260	260	E 300	E 300
	CNT	18	19	20	20	19	17	19	21	19	15	10	12	7	9	9	14	20	23	21	20	20	21	18	20
	UQ																								
	LQ																								
(M3000)F2	MED			270	275	270	270	300	295	310							285	275							
	CNT	3	4	5	8	9	10	7	8	5	[illegible]	2	3	1	3	4	5	5	4		1	1			1
	UQ																								
	LQ																								
foF1	MED							350	430				570		590	570	570								
	CNT							5	10	3	3	3	9	3	5	8	5	3							
foE	MED							240	295	335	360	380	460	400	420	390	370	340	300	240					
	CNT							15	18	16	16	16	12	13	15	15	17	19	16	11	1				
h'E	MED																								
	CNT																								
foEs	MED	E 10	E 10	E 10	E 10	E 10	E 10	E 24	32	35	39	40	40	41	42	40	40	34	31	24	20	10	10	E 10	E 10
	CNT	18	18	18	19	18	17	18	18	17	17	16	14	13	16	15	16	18	17	19	18	18	18	17	19

SWEEP 1.0 MC TO 16.0 MC IN 1 MINUTE 45 SECONDS. NOVEMBER, 1959

TABLE 37

MAWSON (67.6S, 62.9E) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
fo F2	MED	65	70	75	80	82			80	85	85	80	80	80	70	72	65	70					65	60	64
	CNT	9	8	6	5	6	2	4	8	6	8	9	9	5	6	8	12	5	4	3	4	4	7	7	15
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	240	200	180		200				190	180	180	200	200	200	210	230	240					230	220	250
	CNT	11	10	7	4	5	1	2	4	5	8	9	8	8	11	10	13	5	4	3	4	4	7	7	10
	UQ																								
	LQ																								
(M3000)F2	MED	280	260	250	240	240			250	240	250	250	260	280	295	310	300	320					300	300	295
	CNT	9	8	6	5	6	2	4	8	6	8	9	9	5	6	8	12	5	4	3	4	4	7	7	10
	UQ																								
	LQ																								
fo F1	MED																								
	CNT																								
fo E	MED																								
	CNT																								
h'E	MED																								
	CNT																								
fo Es	MED																								
	CNT																								

SWEEP 1.0 MC TO 20.0 MC IN 15 SECONDS. NOVEMBER, 1959

TABLE 38

TROMSO, NORWAY (69.7N, 19.0E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
fo F2	MED	44	44	48	49	46	43	48	58	68	77	93	99	104	101	94	87	74	55	47	44	41	54	44	55
	CNT	2	7	13	7	11	14	16	21	22	30	27	29	30	28	27	25	20	14	19	16	13	10	9	7
	UQ	58	69	55	54	47	47	52	61	74	90	100	107	112	109	103	98	88	65	56	52	55	59	55	67
	LQ	34	31	40	44	40	34	42	50	61	71	80	80	85	80	71	68	61	46	41	41	40	45	40	42
h'F2	MED									250	250	245	250	245	245	245	245								
	CNT								1	8	16	20	22	23	21	17	11	2	1						
	UQ									255	255	260	265	250	250	250	250								
	LQ									250	250	245	245	245	240	240	230								
h'F	MED	400	355	310	340	300	290	260	255	272	255	250	245	245			240	245	250	260	270	295	340	315	345
	CNT	5	7	6	10	13	13	13	14	12	8	8	12	11	3	4	9	17	17	15	8	11	12	7	5
	UQ	420	390	405	375	330	300	290	260	290	270	260	250	245			320	250	280	295	340	310	340	355	370
	LQ	310	310	305	305	290	255	250	245	250	245	250	245	245			230	240	240	250	250	260	300	295	335
(M3000)F2	MED			240			255	270	290	290	290	290	290	290	290	290	300	300	280	270	240	270	250		
	CNT	2	2	6	4	2	7	8	19	20	25	24	25	25	23	25	20	10	10	8	5	6	5	3	4
	UQ			245			265	290	300	290	300	290	290	295	310	300	300	310	290	280	265	275	260		
	LQ			240			240	250	275	270	270	270	270	270	275	285	290	290	265	270	230	250	240		
fo F1	MED																								
	CNT																								
fo E	MED								170	200	235	250	260	255	250	230	215	180							
	CNT	1		1		1	2	2	6	3	10	14	17	19	13	12	9	11	4	1		3	2	1	
h'E	MED										140	130	140	130	130	140									
	CNT	1		1		1	2		1	2	5	10	12	11	9	7	2	3	3			1	1		
fo Es	MED	42	42	42	44	39	32	28	19	20	22	27	G 19	22	26	22	22	29	30	37	41	41	42	40	38
	CNT	25	26	28	24	20	17	12	15	12	17	21	25	26	19	21	20	28	29	28	29	27	29	28	25

SWEEP 0.7 MC TO 25.0 MC IN 5 MINUTES, AUTOMATIC OPERATION. OCTOBER, 1959

TABLE 39

SODANKYLA, FINLAND (67.4N, 26.6E) TIME 30.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
fo F2	MED					U 43	U 43	46	54	65	74	85	93	97	107	103	100	96	88	U 82	62	U 61	U 64	U 52	U 56
	CNT	4	2	4	3	5	8	11	15	20	26	25	25	29	25	26	24	21	21	9	11	8	5	8	6
	UQ					64	52	50	55	69	81	96	105	109	114	114	107	105	97	85	76	76	73	59	58
	LQ					38	41	38	51	62	67	74	85	86	92	99	87	79	74	71	58	50	40	50	52
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	320	335	348	330	310	292	275	265	250	250	245	240	240	240	235	235	235	235	235	255	270	305	340	335
	CNT	19	20	24	25	21	26	25	23	25	29	29	28	31	30	29	30	29	26	23	25	25	23	25	19
	UQ	375	435	400	402	382	390	323	310	270	268	255	248	255	250	245	250	268	255	255	280	322	365	400	420
	LQ	310	315	313	303	290	285	258	250	245	240	240	233	230	230	230	230	225	225	225	243	250	265	300	290
(M3000)F2	MED					U 265	U 273	278	290	295	300	300	295	295	295	300	300	305	305	U 295	290	U 290	U 270	U 262	U 248
	CNT	4	2	3	3	5	8	10	14	19	25	25	25	29	25	26	24	21	21	9	11	8	5	8	6
	UQ					272	278	285	300	305	308	310	305	300	305	305	310	310	310	308	300	300	285	267	250
	LQ					255	267	275	285	290	290	290	290	288	292	290	293	295	290	295	280	283	260	252	245
fo F1	MED																								
	CNT																								
fo E	MED									195	230	250	260	260	265	258	240	212	170						
	CNT								2	10	16	20	15	19	19	16	12	12	7						
h'E	MED									140	130	123	125	123	125	120	125	135							
	CNT								1	10	15	18	13	18	19	15	12	11	4						
fo Es	MED	44	44	40	39	37	33	35	38	39	40	43	43	42	44	44	40	40	40	42	40	41	36	40	40
	CNT	26	26	25	23	22	18	19	15	14	17	18	21	20	15	15	17	18	24	24	24	24	28	31	26

SWEEP 1.4 MC TO 22.0 MC IN 8 MINUTES, AUTOMATIC OPERATION. OCTOBER, 1959

TABLE 40

PRUHONICE, CZECHOSLOVAKIA (50.0N, 14.6E) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
fo F2	MED	49	48	49	44	40	43	66	82	102	107	113	118	118	114	111	110	108	89	81	68	60	53	50	50
	CNT	31	31	30	31	28	29	29	29	24	24	25	25	26	18	22	23	25	24	26	29	29	31	31	30
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	305	300	290	280	250	250	230	225	225	220	215	220	220	225	230	225	220	220	230	240	250	260	300	310
	CNT	28	29	29	31	27	27	27	28	24	27	23	25	27	29	28	29	30	27	27	26	26	26	27	28
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
fo F1	MED																								
	CNT																								
fo E	MED							200	260	280	310	320	320	320	300	280	230								
	CNT							9	22	20	20	20	14	17	16	17	16								
h'E	MED							110	100	100	100	100	100	100	100	100	100								
	CNT							4	23	23	20	22	15	20	17	17	16	3							
fo Es	MED	14	E	E	E		22	25	E 20	26	36	36	35	36	36	32	28	25	22	32	38	40	44	41	22	20
	CNT	10	24	28	20		6	6	20	28	26	26	27	27	28	29	28	29	25	15	13	11	4	5	5	4

SWEEP 1.0 MC TO 18.0 MC. OCTOBER, 1959

TABLE 41

GENOA (MONTE CAPELLINO), ITALY 144.6N, 9.0E)

TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	62	58	59	58	56	54	44	68	91	105	119	125	125	125	126	125	126	124	114	92	82	70	63	60
	CNT	30	30	30	29	30	30	30	30	29	29	28	28	27	28	30	35	30	31	30	31	30	24	27	29
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	300	295	295	290	280	260	250	245	225	225	220	220	220	225	225	235	230	225	225	230	235	250	255	275
	CNT	30	29	30	29	29	30	30	30	30	30	30	30	30	30	30	30	31	30	30	30	29	28	29	28
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED								180	250	300	320	330	340	340	320	300	280	220						
	CNT								23	30	30	30	29	30	30	28	29	31	26						
h'E	MED																								
	CNT																								
foEs	MED	E	E	E	E	E	E	E	U	G														E	E
	CNT	30	30	30	30	30	30	30	30	30	31 29	36 29	38 30	37 30	38 30	45 30	33 30	32 31	29 31	31 30	24 30	25 30	20 30	30	30

SWEEP 1.0 MC TO 20.0 MC IN 5 MINUTES. AUTOMATIC OPERATION.

OCTOBER, 1959

TABLE 42

ROME, ITALY 141.8N, 12.5E)

TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	57	58	57	56	55	50	50	77	U 85	U 104	120	123	124	124	120	121	125	121	U 103	U 80	69	62	59	59
	CNT	27	30	30	29	29	24	28	22	9	13	16	25	25	27	23	17	23	22	10	11	21	22	28	25
	UQ	60	65	63	61	61	55	55	82	90	116	123	132	129	128	129	125	128	126	113	85	80	65	65	61
	LQ	51	51	51	50	48	47	45	67	68	81	105	115	119	118	114	117	118	116	88	79	64	58	57	53
h'F2	MED																								
	CNT									2	1	1	1												
	UQ																								
	LQ																								
h'F	MED	31	31	300	290	290	260	250	240	240	230	230	230	230	230	240	240	240	240	230	240	240	260	270	290
	CNT	29	30	29	29	29	24	29	24	29	28	27	28	27	30	29	27	29	29	29	28	29	30	30	29
	UQ	335	340	330	310	310	300	380	370	240	240	240	240	240	240	240	240	250	250	240	250	250	270	280	310
	LQ	285	290	290	280	270	290	240	230	230	230	230	220	220	220	230	240	240	240	220	240	230	250	260	270
(M3000)F2	MED	255	260	260	260	270	280	290	310	U 290	U 310	310	300	295	295	295	295	305	305	U 305	U 295	295	275	270	265
	CNT	27	30	30	29	29	29	27	18	8	9	15	22	24	20	20	12	22	20	7	6	19	21	26	23
	UQ	270	270	270	275	280	295	310	335	345	320	315	310	305	305	300	300	305	315	320	320	310	285	285	270
	LQ	245	245	250	245	255	255	265	300	285	280	305	295	290	285	290	290	295	300	290	285	270	265	260	240
foF1	MED																								
	CNT									2	1	1	1												
foE	MED								220	280	310	330	340	350	350	340	310	280	200						
	CNT							4	25	27	26	27	18	18	23	18	26	24	22	1					
h'E	MED								140	120	110	110	110	110	110	110	110	120	130						
	CNT							1	26	26	27	27	27	28	31	29	28	28	21	1					
foEs	MED	3[illegible]	30	30	29	2[illegible]	29	29	29	29	28	27	28	29	31	29	28	29	31	31	30	31	31	31	31
	CNT																								

SWEEP 1.0 MC TO 16.0 MC IN 5 MINUTES. AUTOMATIC OPERATION.

OCTOBER, 1959

TABLE 43

TOWNSVILLE, AUSTRALIA 119.3S, 146.7E)

TIME 150.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED			D 68	D 65	D 63	D 61		D 95	D 108	U 125	U 124	124	130	128	126	125	D 111		D 108					
	CNT	2	3	8	11	12	13	3	6	11	22	21	23	23	22	21	21	16	4	7	1				
	UQ																								
	LQ																								
h'F2	MED										290					345	330								
	CNT								1	3	5	2	3	4	4	6	5								
	UQ																								
	LQ																								
h'F	MED	260	255	250	280	280	290	270	240	240	225	220	210	210	U 220	210	230	250	250	260	265	290	295	300	290
	CNT	19	20	17	19	19	19	19	19	18	21	18	15	22	19	17	17	18	17	19	22	22	27	2	1
	UQ																								
	LQ																								
(M3000)F2	MED						U 280				330	285	280	275	275	270	275								
	CNT	1	1	1	1	3	5		2	3	16	17	21	23	17	18	16	2	1	1					
	UQ																								
	LQ																								
foF1	MED																								
	CNT									1	2	1	2	4	3	4	2	1							
foE	MED							190	270	320	350	U 370	385	U 390	U 390	U 385	U 360	330	275	U 170					
	CNT							19	18	18	21	14	7	7	8	7	18	2	21	9					
h'E	MED																								
	CNT																								
foEs	MED	E 1	E 10	[illegible]	E 10	E [illegible]	E [illegible]	F 14	E 28	36	38	40	[illegible]	E 39	42	E 39	38	36	34	32	26	E 10	E 10	E 10	E 10
	CNT	19	23	19	19	18	18	19	18	19	22	18	10	9	12	14	14	2	21	21	21	22	18	21	19

SWEEP 1.0 MC TO 16.0 MC IN 1 MINUTE 55 SECOND.

OCTOBER, 1959

TABLE 44

MUNDARING, W. AUSTRALIA (32.0S, 116.2E)

TIME 120.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D 56	D 42	D 40	D 40	D 44	U 48	U 60	D 71	80	U 83	D 86	D 86	D 86	D 86	D 86	D 86	D 86	D 83	D 70					
	CNT	6	7	9	10	15	15	18	22	18	17	18	18	15	17	21	21	20	18	9	4	2	3	3	2
	UQ																								
	LQ																								
h'F2	MED										350	355	360	350	345	350									
	CNT							1	1	3	5	10	12	17	15	11	7								
	UQ																								
	LQ																								
h'F	MED	290	285	275	270	U 290	300	275	250	240	220	220	210	200	210	220	220	235	245	250	240	245	250	265	275
	CNT	26	26	27	26	28	27	26	27	24	24	21	17	14	17	19	20	26	26	25	26	28	27	28	29
	UQ																								
	LQ																								
(M3000)F2	MED			280	260	285	260	300	305	315	290	290	280	290	295	280	290	280	300						
	CNT	1	1	2	2	11	11	13	16	13	11	13	9	8	13	2	2	9	8	1		1	1		
	UQ																								
	LQ																								
foF1	MED											520	550	590	580										
	CNT							1	1	2	3	4	13	15	14	12	7								
foE	MED							180	260	300	340	360	375	380	390	380	350	320	275	180					
	CNT							26	26	24	24	22	14	13	14	21	21	23	26	23					
h'E	MED																								
	CNT																								
foEs	MED	E 10	E 10	E 10	E 10	E 10	E 10	E 18	E 26	E 30	E 34	E 36	E 38	E 38	E 38	E 38	E 35	E 32	E 28	E 18	E 10	E 10	E 10	E 10	E 10
	CNT	26	26	27	27	27	26	26	27	24	24	21	15	18	22	23	22	24	26	24	24	26	26	26	27

SWEEP 1.0 MC TO 16.0 MC IN 1 MINUTE 45 SECONDS.

OCTOBER, 1959

TABLE 45

RESOLUTE BAY, CANADA (74.7N, 94.9W) TIME 90.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	57	56	58	60	60	59	58	60	60	57	56	56	55	57	58	59	58	58	60	60	59	58	58	60
	CNT	30	30	30	30	30	31	31	31	31	31	29	30	29	29	28	29	30	31	31	31	31	31	30	29
	UQ																								
	LQ																								
h'F2	MED						U														U	U			
	CNT		1	1	3	1	340	390	380	400	420	480	540	500	450	470	460	450	440	430	420	410			
	UQ						6	12	19	29	23	22	20	21	22	23	24	21	20	11	9	7		2	1
	LQ																								
h'F	MED	270	280	280	270	260	260	240	240	240	230	210	210	210	210	210	220	220	230	250	260	260	270	270	280
	CNT	32	29	28	29	28	31	30	27	30	27	26	24	24	24	21	25	28	28	27	30	30	30	27	28
	UQ																								
	LQ																								
(M3000)F2	MED	260	270	260	270	260	280	270	250	250	250	250	250	240	240	240	240	250	250	250	250	250	260	260	260
	CNT	18	15	12	13	14	16	19	18	19	21	17	11	16	13	15	19	16	16	18	21	23	16	18	21
	UQ																								
	LQ																								
foF1	MED						U														U	U			
	CNT		1	1	2	1	380	400	420	440	450	450	460	470	450	460	450	450	430	400	390	380			
							8	14	19	23	25	25	22	25	29	27	28	25	24	14	9	7		2	1
foE	MED	180	170	180	190	210	240	260	280	300	300	320	330	330	330	320	310	300	290	270	250	230	210	180	170
	CNT	24	25	25	24	27	26	27	27	28	27	26	26	25	24	25	27	28	29	29	29	29	30	26	23
h'E	MED	U	U																						
	CNT	115	115	110	110	110	100	100	100	100	100	100	100	100	100	100	100	100	100	100	105	110	110	110	120
		4	17	17	19	21	22	18	22	23	24	26	24	24	24	25	28	28	28	26	25	22	18	17	14
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 20.0 MC IN 27 SECONDS. AUGUST, 1959

TABLE 46

PRUHONICE, CZECHOSLOVAKIA (50.0N, 14.6E) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	61	59	53	52	55	64	75	75	80	73	82	87	84	82	83	79	79	82	87	85	82	70	68	63
	CNT	28	26	27	27	26	26	24	26	24	25	21	26	26	23	23	26	26	25	21	23	17	23	22	28
	UQ																								
	LQ																								
h'F2	MED						360		350	350	370	350	370	390	380	350	360								
	CNT						4	3	5	11	8	15	17	15	10	18	8	1	1						
	UQ																								
	LQ																								
h'F	MED	305	300	290	300	280	250	240	235	220	220	212	215	220	225	225	225	240	250	260	255	255	260	280	310
	CNT	26	16	21	21	24	19	19	18	9	11	9	8	13	12	17	16	15	11	18	20	12	20	19	19
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED						400		510	530	570	550	570	600	550	590	530								
	CNT						4	3	4	8	7	12	12	13	10	13	7	1	1						
foE	MED						240	290	320	350	360	370	380	380	360	350	340	310	280						
	CNT						13	18	22	22	23	13	15	9	12	17	16	16	17						
h'E	MED						105	100	100	100	100	105	105	105	105	100	100	100	105						
	CNT		1	1		3	12	21	23	24	22	13	15	9	12	16	15	18	18	1					
foEs	MED	25	18	20	20	20	28	39	44	46	45	44	44	45	40	39	38	38	42	43	41	41	36	40	U 33
	CNT	13	24	27	27	22	25	27	28	28	28	27	27	26	29	23	27	27	26	25	24	19	19	11	10

SWEEP 1.0 MC TO 18.0 MC. AUGUST, 1959

TABLE 47

GENOA (MONTE CAPELLINO), ITALY (44.6N, 9.0E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	76	75	73	68	63	61	68	78	86	88	90	93	94	94	92	90	90	89	88	93	98	89	86	80
	CNT	31	31	31	31	30	30	30	30	31	31	31	31	30	30	30	30	28	31	31	31	31	30	29	31
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	310	315	320	300	305	300	255	240	225	220	220	220	220	220	220	220	220	230	255	265	260	265	260	280
	CNT	31	28	30	31	29	30	28	28	27	26	25	26	25	22	22	23	24	27	26	30	30	27	27	29
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED							290	270	320	350	360	370	380	380	370	360	340	320	260	210				
	CNT							20	30	31	31	31	31	31	31	31	31	31	31	31	18				
h'E	MED																								
	CNT																								
foEs	MED	34	33	22	23	20	20	27	38	40	44	46	50	49	50	48	41	39	39	38	38	36	44	44	39
	CNT	31	31	31	31	30	30	30	30	31	31	31	31	29	30	30	30	30	31	30	31	31	31	31	31

SWEEP 1.0 MC TO 20.0 MC IN 5 MINUTES. AUTOMATIC OPERATION. AUGUST, 1959

TABLE 48

DELHI, INDIA (28.6N, 77.2E) TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D 81	D 80			D 70	D 70	D 86	93	102	104	114	119	128	130	132	D 131	D 127	D 122	D 114	D 106	D 92	D 90	D 86	D 83
	CNT	29	25	1	2	25	25	28	17	22	21	24	17	18	24	16	26	24	24	27	29	22	24	25	20
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED							U	335	325	400	280	280	270	280	460	U 280								
	CNT				1			7	13	14	15	20	11	14	15	11	7	1	4	2	2		1		
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT								3	1	1														
h'E	MED																								
	CNT								3	1	1	1													
foEs	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES. MANUAL OPERATION. AUGUST, 1959

TABLE 49

AHMEDABAD, INDIA (23.0N, 72.6E) TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	90	86	74	72	70	72	84	102	105	102	112	129	136	D 137	D 140	D 140	D 140	D 140	139	140	129	110	102	89
	CNT	19	14	18	14	17	19	19	20	19	21	24	21	22	23	25	24	23	23	21	24	24	20	17	18
	UQ																								
	LQ																								
h'F2	MED									250	300	340	365	400	400	400	390	360	320						
	CNT								1	16	21	21	18	22	22	25	23	22	22	2					
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	250	260	250	250	255	270	295	310	305	275	250	240	240	245	U 250	U 250	U 255	265	270	275	260	255	250	255
	CNT	18	14	17	18	19	19	22	20	19	20	23	18	19	13	8	9	7	13	20	22	24	20	18	18
	UQ																								
	LQ																								
foF1	MED									U 540	480	530	610	630	630	640	600	600	550						
	CNT								2	4	7	9	5	11	11	13	15	10	9						
foE	MED							E		U 350	U 400	U 400					410	380	300	240					
	CNT							12	270 10	3	3	4		1		2	7	7	10	10	1				
h'E	MED							U 110	115	110	110	U 110					110	110	120	125					
	CNT							3	8	5	5	4	1			1	9	10	11	7					
foEs	MEQ	20	18	E	E	E	E		36	40	61	63	63	58	46	43	43	37	41	37	38	25	24	24	19
	CNT	21	21	22	22	21	21	22	20	20	21	21	18	19	15	13	19	15	21	24	24	24	22	22	21

SWEEP 0.6 MC TO 25.0 MC IN 5 MINUTES. AUTOMATIC OPERATION. AUGUST, 195-

TABLE 50

CALCUTTA, INDIA (23.0N, 88.6E) TIME 90.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D 100	D 95	D 70	D 60	D 70	D 60	D 90	D 100	D 115	D	D			D		D	D	D	D	D	D	D	D	D 100
	CNT	12	10	11	11	11	10	11	12	12	11	10	9	R	10	R	11	12	12	13	13	12	12	12	10
	UQ																								
	LQ																								
h'F2	MED											U 380	U 380	U 380	U 400	U 380	U 400	U 400							
	CNT											6	6	8	8	8	11	9							
	UQ																								
	LQ																								
h'F	MED	300	260	260	290	270	280	250	250	250	250	250	250	250	250	U 250	250	250	250	260	290	300	300	290	290
	CNT	12	10	12	12	12	11	12	11	10	9	7	7	5	5	4	7	8	11	11	12	13	13	13	12
	UQ																								
	LQ																								
(M3000)F2	MED	U 370	U 380	U 390	U 390	U 360		U 370	U 380	U 400															
	CNT	5	6	7	7	6	4	9	9	6															
	UQ																								
	LQ																								
foF1	MEQ											U 800	U 900	U 900	U 850	U 800	U 850	U 800							
	CNT											5	7	5	4	5	8	8							
foE	MEQ								290	360	390	U 400	D 400	U 400	U 400	U 400	400	370	300						
	CNT								8	8	7	8	7	4	4	3	9	9	10	1					
h'E	MEQ								100	100	100	100	100	U 100	100	U 100	100	100	100	U 100					
	CNT							2	9	9	7	7	7	4	5	3	7	9	9	3					
foEs	MEQ	E	E	E	E	E				G	G	G	G	G										E	E
	CNT	12	10	12	12	12	21 11	28 12	40 12	30 10	9	7	7	6	60 7	G 5	40 10	41 11	42 12	35 13	28 12	22 12	20 13	13	12

SWEEP 1.0 MC TO 13.0 MC IN 1 MINUTE 55 SECONDS. AUGUST, 1959

TABLE 51

MACAU (22.2N, 113.6E) TIME 120.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED							90	100	110	120		135	141	147	149	150	150	150	150	150				
	CNT	4	2	2	2	2	3	6	10	12	8	3	9	9	15	13	10	10	8	9	5	1		1	2
	UQ							95	100	110	120		139	146	150	153	150	150	152	152	151				
	LQ							85	92	96	102		127	139	140	148	148	149	150	153	150				
h'F2	MEQ										400	405	400	400	400	400	400	400	400	415					
	CNT										18	12	13	12	14	11	13	18	11	11					
	UQ																								
	LQ																								
h'F	MED	440	415	400	400	400	400	430	400	400			690	700	700	720	700	690	645	425	460				
	CNT	9	10	7	7	11	14	16	21	26	4	4	10	11	13	14	19	16	13	7	6	4	4	3	3
	UQ																								
	LQ																								
(M3000)F2	MED							220	220	220	200		200	205	205	205	205	205	205	205	205				
	CNT	4	2	2	2	2	3	6	10	11	8	4	9	9	15	13	10	10	8	9	5	1		1	2
	UQ																								
	LQ																								
foF1	MED											700	790	780	730	750	700	700	700						
	CNT										4	5	11	10	13	15	18	18	11	1					
foE	MED								280	300									300						
	CNT							1	8	10	4	1						2	7	1					
h'E	MED								165	170									160						
	CNT							1	8	10	4	1						2	7	1					
foEs	MED																								
	CNT																								

SWEEP 1.6 MC TO 20.0 MC IN 15 SECONDS. AUGUST, 1959

TABLE 52

BOMBAY, INDIA (19.0N, 72.8E TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D 93	D 86	D 78	D 73	D 68	D 68	D 73	D 84		D 105	D 112	D 116	D 122		D 125	D 125	D 125	D 119	D 116	D 116		D 112	D 103	D 100
	CNT	13	12	12	17	18	17	17	18		18	20	21	20	3	21	21	20	17	17	18	2	12	10	9
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED							U 330	U 325		U 285														
	CNT		1	1	2	2	4	6	8		6	2	2			1									
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED								420		U 500	470					U 550	470							
	CNT							1	5		3	2	2	2			3	5	1	1					
h'E	MED								100		U 130						U 120	100							
	CNT							1	5		3	2	2	2			3	5	1	1					
foEs	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES. MANUAL OPERATION. AUGUST, 1959

TABLE 53

MADRAS, INDIA (13.1N, 80.3E) TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	120	112	99	92	76	72	89	113	120	117	114	118	118	123	125	128	130	132	129	118	123	122	124	130
	CNT	23	21	16	19	24	28	31	30	30	29	28	29	30	20	31	31	30	27	31	29	23	26	24	29
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED							310	295	260	235	225	225	225	230	230	235	240	U 250	U 245					
	CNT				1	1	1	13	26	28	19	23	26	16	14	24	19	15	7	5		1	1	2	
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 2.5 MC TO 20.0 MC IN 5 MINUTES MANUAL OPERATION. AUGUST, 1959

TABLE 54

TIRUCHY, INDIA (10.8N, 78.7E) TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 114	U 100	U 92		U 85	66	85	104	118	122	118	115	117	120	118	126	131		Q 122	D 115				
	CNT	5	5	6	3	10	13	22	29	31	21	30	30	29	26	29	28	13	1	31	21	4	1	3	3
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED					U 320	U 345	330	300	270	245	230	230	230	225	225	235	U 235		U 245					
	CNT	2				5	9	12	23	24	19	30	31	29	25	27	23	9	1	6	2			1	2
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES, MANUAL OPERATION. AUGUST, 1959

TABLE 55

KODAIKANAL, INDIA (10.2N, 77.5E) TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	110	U 98	90	84	81	60	76	105	117	121	117	114	116	116	117	120	124	124	128	116	115	U 112	U 112	U 114
	CNT	14	15	16	15	17	18	26	30	31	31	30	30	29	30	30	29	31	30	31	28	11	7	8	8
	UQ																								
	LQ																								
h'F2	MED																								
	CNT											1		1			2	2	1						
	UQ																								
	LQ																								
h'F	MED	300	280	265	260	240	230	270	245	230	220	210	210	210	215	220	225	240	260	295	380	400	340	320	305
	CNT	30	30	30	30	31	31	31	31	30	30	28	30	27	28	29	21	22	23	28	28	29	22	19	27
	UQ																								
	LQ																								
(M3000)F2	MED	265	U 280	270	285	305	310	300	290	260	230	220	215	215	210	210	215	225	230	230	210	215	U 240	U 230	U 260
	CNT	14	15	16	15	17	17	26	30	31	31	30	30	29	30	30	29	31	30	31	28	11	6	7	8
	UQ																								
	LQ																								
foF1	MED																								
	CNT											1													
foE	MED								300																
	CNT							2	8	2	4				1	1	1	4	3						
h'E	MED								115	110	110						115	120	120						
	CNT							3	23	13	8				2	4	9	15	9	1					
foEs	MED	44	32	36		40			84	110	116	126	128	127	129	127	116	114	90	64	43	30	43	50	55
	CNT	14	8	6	2	5	2	6	31	31	31	30	30	29	30	30	29	31	31	21	6	7	9	13	16

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS. AUGUST, 1959

TABLE 56

TRIVANDRUM, INDIA (8.5N, 77.0E) TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 95	U 92	D 90	82	U 70	55	77	108	123	128	120	118	118	118	121	122	122	128	132	D 115				
	CNT	5	6	10	10	9	13	20	28	31	12	13	25	30	27	29	30	29	24	22	25	3	3	4	4
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED				U 310	U 300	315	310	300	275	250	235	230	225	225	225	230	230	235	240	U 235				
	CNT	2	1	3	7	5	10	18	22	29	13	13	25	30	27	27	28	23	15	14	5	1	1	1	1
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES, MANUAL OPERATION. AUGUST, 1959

TABLE 57

MUNDARING, W. AUSTRALIA (32.0S, 116.2E) — TIME 120.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	41	41	40	40	40	38	34	60		D 85	D 86	D 86	D 86	D 86	D 86	D 86	D 85	D 77	D 70			D 52	D 43	D 44
	CNT	13	16	17	18	18	18	15	6	2	6	6	7	5	9	14	15	13	10	5	4	3	6	9	10
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	250	260	265	255	250	255	250	245	235	230	230	225	230	230	220	240	235	240	225	225	230	240	240	250
	CNT	15	13	17	15	13	14	16	15	16	17	15	18	14	20	15	16	22	22	19	18	18	17	15	18
	UQ																								
	LQ																								
(M3000)F2	MED	320	310	315	320	310	300	315																	330
	CNT	10	15	15	17	16	13	12	4		4		1	1	1	1	3	4		1	2	2	2	4	8
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED							E 150	195	270	320	350	370	380	380	355	340	310	250	E 170					
	CNT							15	10	9	12	12	18	15	15	15	15	18	6	14					
h'E	MED																								
	CNT																								
foEs	MED	E 10	E 10	E 10	E 10	E 10	E 10	E 15	E 20	E 27	E 32	E 35	40	40	40	40	36	34	27	20	E 10	E 10	E 10	E 10	E 10
	CNT	17	17	19	19	19	18	15	14	14	15	12	19	18	20	18	18	21	20	20	19	16	16	16	16

SWEEP 1.0 MC TO 16.0 MC IN 1 MINUTE 45 SECONDS. — AUGUST, 1959

TABLE 58

MAWSON (67.6S, 62.9E) — TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED								95	105	118	110	110	105	104										
	CNT					2	3	3	5	5	6	10	6	9	6	2	1								
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED								240	240	230	250	250	250	255										
	CNT					2	3	3	5	5	6	10	6	9	6	2	1								
	UQ																								
	LQ																								
(M3000)F2	MED								300	290	305	300	300	300	310										
	CNT					2	3	3	5	5	6	10	6	9	6	2	1								
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 20.0 MC IN 15 SECONDS. — AUGUST, 1959

TABLE 59

RESOLUTE BAY, CANADA (74.7N, 94.9W) — TIME 40.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	57	56	56	57	56	52	52	53	55	54	53	54	56	53	55	54	58	56	54	56	56	57	58	60
	CNT	21	21	22	21	21	20	20	20	19	20	20	19	20	19	19	20	20	21	21	21	21	21	21	21
	UQ																								
	LQ																								
h'F2	MED			U 360	U 400	400	400	400	470	460	450	500	500	500	500	480	490	440	470	480	420	400	U 400		
	CNT	2	4	6	6	11	12	14	15	17	16	14	19	18	16	16	15	19	13	19	16	13	5	4	3
	UQ																								
	LQ																								
h'F	MED	280	270	250	240	240	240	230	220	210	210	200	200	200	200	200	210	200	220	220	220	230	260	260	260
	CNT	20	21	19	20	19	20	19	20	19	20	15	14	13	11	15	17	17	18	18	17	19	19	19	18
	UQ																								
	LQ																								
(M3000)F2	MED	270	290	260	270	270	250	260	250	250	250		230	U 230	U 240	U 250	U 240	250	250	240	240	250	260	260	260
	CNT	18	15	15	13	13	15	10	12	14	12	4	10	9	5	6	9	12	11	14	15	16	19	13	15
	UQ																								
	LQ																								
foF1	MED			U 380	U 380	390	400	420	440	450	450	450	470	460	450	450	460	460	450	440	420	400			
	CNT	3	3	7	5	12	13	16	17	19	20	19	19	19	20	19	18	21	17	21	16	13	4	1	5
foE	MED	230	220	230	240	250	270	280	300	310	320	330	340	340	340	330	330	320	310	300	280	260	240	240	230
	CNT	16	17	17	18	18	17	17	17	18	18	17	16	15	15	15	16	17	19	18	18	18	17	17	17
h'E	MED	110	100	110	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	110	110
	CNT	12	13	12	12	15	14	14	15	16	16	18	16	15	17	16	17	18	15	14	15	14	14	13	12
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS. — JULY, 1959

TABLE 60

PRUHONICE, CZECHOSLOVAKIA (50.0N, 14.6E) — TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	68	65	60	57	62	69	72	75	76	78	75	75	78	78	77	75	77	78	79	71	79	75	72	70
	CNT	28	28	26	23	26	26	27	22	19	18	19	24	21	20	22	24	22	19	21	16	21	22	24	26
	UQ																								
	LQ																								
h'F2	MED							375	355	390	365	390	380	415	385	400	360	350							
	CNT					1	3	6	12	8	8	10	18	14	14	13	14	5	4						
	UQ																								
	LQ																								
h'F	MED	300	295	280	290	260	250	230	225	230	225	220	215	215	215	230	230	230	245	265	275	275	280	290	300
	CNT	27	27	27	25	20	19	20	14	10	11	10	8	12	9	14	16	16	16	18	15	21	26	27	23
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED							500	530	560	560	570	590	590	580	530	540	500							
	CNT					1	3	6	9	8	4	8	12	12	13	10	13	5	4						
foE	MED				160	210	260	310	330	350	380	380	380	380	380	370	350	320	290	220					
	CNT				6	17	17	21	23	20	21	15	16	16	14	20	21	22	21	18					
h'E	MED					120	100	100	100	100	100	100	100	100	105	105	100	100	100	110					
	CNT				1	7	17	22	23	18	18	15	11	13	14	16	15	23	22	11					
foEs	MED	E	F	E					18	24	33	40	46	54	46	46	45	44	47	46	42	40	41	40	38	40	40	26	40
	CNT	17	24	28		25	25	26	28	28	31	25	27	24	23	26	25	29	26	26	21	20	11	9	3

SWEEP 1.0 MC TO 18.0 MC. — JULY, 1959

TABLE 61

ST. JOHNS, NEWFOUNDLAND (47.6N, 52.7W) TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	62	54	47	42	45	50	54	58	63	68	68	68	70	72	70	74	73	75	79	79	80	77	74	67
	CNT	11	10	11	14	19	18	22	23	22	25	22	24	25	23	25	28	28	29	28	27	23	18	17	19
	UQ	66	65	64	50	47	54	58	66	69	70	71	71	76	78	79	86	81	83	89	87	84	80	79	72
	LQ	58	47	43	37	41	47	49	55	60	61	63	63	67	68	67	69	69	69	70	72	74	69	65	60
h'F2	MED							520	430	335	400	430	450	440	435	420	425	380	390	350					
	CNT					1	4	7	16	15	25	15	18	23	17	19	23	21	15	5					
	UQ																								
	LQ																								
h'F	MED	300	300	310	310	300	260	250	240	225	215	210	230	215	220	220	220	225	240	275	295	280	270	295	300
	CNT	27	26	25	26	26	25	25	28	27	26	27	25	25	24	27	28	28	27	27	28	27	25	26	26
	UQ																								
	LQ																								
(M3000)F2	MED	260	260	260	U 255	275	285	280	285	295	280	270	265	270	260	260	265	265	270	270	270	270	260	255	260
	CNT	11	10	11	14	18	18	22	23	22	25	22	24	25	23	25	28	28	29	28	27	23	18	17	18
	UQ																								
	LQ																								
foF1	MED								490	500	510	530	550	550	550	540	520	500	460						
	CNT						1	4	16	11	19	14	19	19	18	18	22	16	7	1					
foE	MED							U 310	U 320	U 360	D 360		U 390		400	380	U 380	U 340	U 300	270					
	CNT						1	5	5	8	5	2	6	4	5	7	11	17	13	18	2	1			
h'E	MED						111	107	105	105	101	101	101	101	101	101	103	103	105	111	125				
	CNT						5	8	18	20	19	14	19	17	18	19	21	23	23	19	5				
foEs	MED	19	18	17	18	23	28	32	35	38	40	40	40	40	40	39	35	34	32	33	37	22	16	14	18
	CNT	29	27	26	28	28	26	26	28	28	28	26	27	28	26	29	29	29	29	29	29	29	27	28	29

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS. JULY, 1959

TABLE 62

GENOA (MONTE CAPELLINO), ITALY (44.6N, 9.0E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	81	80	75	73	67	68	78	79	82	87	86	88	90	89	88	89	85	85	88	90	88	88	88	85
	CNT	30	30	31	31	31	31	31	29	28	28	28	27	27	30	30	31	31	31	30	29	29	29	31	31
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	315	320	320	295	305	305	260	250	240	225	225	220	220	225	225	225	230	240	250	275	275	275	290	305
	CNT	29	28	29	29	30	28	31	28	23	21	21	19	23	26	25	23	24	27	25	27	26	28	29	29
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED						160	230	300	330	360	370	380	390	390	380	370	360	330	300	230				
	CNT						14	31	31	31	31	31	31	31	31	31	31	31	31	31	31				
h'E	MED																								
	CNT																								
foEs	MED	20	34	23	21	23	24	29	39	46	48	54	51	46	48	45	45	42	42	39	43	40	34	34	35
	CNT	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31

SWEEP 1.0 MC TO 20.0 MC IN 5 MINUTES. AUTOMATIC OPERATION. JULY, 1959

TABLE 63

MACAU (22.2N, 113.6E) TIME 120.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED																								
	CNT		1	1	3	4	2			4	3	4	4	3	3	3	140 5	2	3	150 5	2	2	1		
	UQ																			151					
	LQ																			150					
h'F2	MED										400	410	455	405	420		480	450	425	400					
	CNT										13	15	12	12	6	3	5	7	10	11					
	UQ																								
	LQ																								
h'F	MED	470	440	400	400	420	460	450	425	405		600	690	730	800	800	700	685	650	600	460	470			
	CNT	5	11	14	13	15	9	9	11	11	2	9	7	7	5	5	7	8	10	6	7	5	2	1	2
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT		1	1	3	4	2			4	3	4	4	3	3	3	205 5	2	3	205 5	2	2	1		
	UQ																								
	LQ																								
foF1	MED											700	690	700	700	700	650	610	610	600					
	CNT										2	9	6	7	5	7	6	10	12	7					
foE	MED									290															
	CNT								3	6	2	1					1	2	2	2	1				
h'E	MED									175															
	CNT								3	6	2	1					1	2	2	2	1				
foEs	MED																								
	CNT																								

SWEEP 1.6 MC TO 20.0 MC IN 15 SECONDS. JULY, 1959

TABLE 64

MUNDARING, W. AUSTRALIA (32.0S, 116.2E) TIME 120.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	40	41	40	38	38	38	34	D 44	D 67	D 85	D 85	D 85	D 85	D 85	D 85	D 85	D 85	D 68	D 67	D 67	D 44	D 44	43	42
	CNT	25	27	24	27	28	24	23	28	29	30	29	28	26	26	29	29	30	30	30	30	31	30	30	27
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	260	260	260	260	260	250	250	250	220	225	220	220	225	230	220	230	230	220	215	215	230	240	250	260
	CNT	28	29	28	29	28	27	27	28	29	30	29	28	26	26	29	29	30	30	30	30	31	30	30	29
	UQ																								
	LQ																								
(M3000)F2	MED	330	320	330	325	335	330	330	350																
	CNT	22	21	20	22	23	21	21	10	1	1	1									2	2	360 11	325 21	320 19
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED								175	240	300	335	350	355	355	350	325	280	220						
	CNT								23	26	28	28	24	20	20	23	23	26	24						
h'E	MED																								
	CNT																								
foEs	MED	E 10	E 10	E 10	E 10	E 10	E 10	E 10	E 18	E 24	E 30	E 34	E 36	38	40	37	34	33	E 22	20	19	E 10	E 10	E 10	E 10
	CNT	30	30	30	30	30	28	29	29	30	30	29	28	26	24	29	29	30	30	30	30	31	30	30	30

SWEEP 1.0 MC TO 16.0 MC IN 1 MINUTE 45 SECONDS. JULY, 1959

TABLE 65

RESOLUTE BAY, CANADA (74.7N, 94.9W) TIME 90.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	60	60	60	62	60	60	60	54	55	58	57	59	60	59	60	59	59	60	61	61	62	65	60	62
	CNT	26	26	26	25	25	25	25	25	25	24	24	24	24	24	25	27	27	26	26	25	25	25	26	25
	UQ																								
	LQ																								
h'F2	MED					U																			
	CNT	1		3	2	420	420	420	500	470	460	470	480	470	490	480	480	450	450	440	390	390			
	UQ					6	12	18	17	21	20	21	20	21	19	20	21	20	20	20	12	11	4	2	2
	LQ																								
h'F	MED	270	260	270	250	240	240	230	220	220	210	210	220	210	210	220	210	220	220	230	240	260	260	280	270
	CNT	24	22	23	22	21	22	24	24	22	21	18	19	16	18	22	23	22	21	25	24	23	23	24	23
	UQ																								
	LQ																								
(M3000)F2	MED	270	260	270	260	260	250	250	250	U	U	U			U										
	CNT	19	13	22	22	14	17	15	12	260	260	250	250	240	240	240	240	240	240	250	250	260	260	260	260
	UQ									8	8	9	11	12	7	15	13	12	18	19	20	17	20	18	13
	LQ																								
foF1	MED					U																	U		
	CNT	1	2	2	3	400	400	420	430	440	470	450	480	480	480	480	460	460	450	440	420	400	370		
	UQ					7	10	14	18	22	23	23	24	23	23	23	22	24	22	20	14	10	5	2	2
	LQ																								
foE	MED	210	210	220	230	240	260	280	300	320	330	340	340	350	340	330	330	320	300	290	270	250	230	220	210
	CNT	18	19	20	21	21	19	20	21	22	20	21	20	19	18	21	23	22	22	21	21	21	19	18	18
h'E	MED	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	CNT	13	11	14	14	15	15	13	21	19	19	18	18	17	18	20	19	19	17	18	17	16	17	13	12
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS. MAY, 1959

TABLE 66

OTTAWA, CANADA (45.4N, 75.9W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	56	49	45	40	40	48	56	58	60	62	62	64	67	69	70	70	72	76	76	75	73	72	68	62
	CNT	28	27	27	27	28	28	28	28	29	28	28	29	28	28	29	28	29	28	29	29	29	28	28	27
	UQ																								
	LQ																								
h'F2	MED							U	U											U					
	CNT							400	460	520	500	550	520	510	500	480	470	440	400	400					
	UQ							5	9	15	21	22	24	25	26	26	25	22	14	6					
	LQ																								
h'F	MED	300	300	320	300	300	270	250	240	230	220	210	200	210	220	230	220	230	240	250	270	260	280	300	300
	CNT	23	21	22	22	23	25	27	28	28	28	26	29	28	28	29	28	28	23	23	26	27	28	26	26
	UQ																								
	LQ																								
(M3000)F2	MED						U	U	U	U	U	U		U				U						U	
	CNT	2	4	4	2	3	300	300	290	290	260	260		250	250	250	250	250	260	260	280	4	260		
	UQ						7	8	7	6	6	6	4	9	14	18	18	22	17	16	11		6	4	3
	LQ																								
foF1	MED								460	500	520	540	550	550	550	540	520	510	480						
	CNT							4	15	20	23	24	28	28	25	27	25	20	13	4					
foE	MED						200	270	320	350	380	400	400	400	400	400	380	360	320	280	200	U			
	CNT						23	26	28	29	28	28	29	28	28	29	28	28	26	26	24	160			
																						6			
h'E	MEQ						130	120	110	110	110	105	100	100	100	100	105	105	110	110	120				
	CNT						17	24	26	27	28	27	27	27	28	29	28	28	26	24	16				
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 16 SECONDS. MAY, 1959

TABLE 67

MUNDARING, W. AUSTRALIA (32.0S, 116.2E) TIME 120.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D	U	D	U		D		U	D	D	D	D	D	D	D	D	D	D	D	D	D	D		
	CNT	45	50	45	44	43	42	40	62	80	85	86	86	86	86	86	86	85	80	68	68	68	60	57	53
	UQ	21	22	18	21	18	22	20	22	11	12	11	7	11	10	13	8	16	17	10	9	13	17	24	22
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	250	255	250	250	250	250	240	240	230	235	230	230	230	220	240	240	240	230	215	225	230	240	245	250
	CNT	27	29	29	26	26	26	28	28	29	28	28	28	28	28	28	27	28	28	26	27	27	26	27	25
	UQ																								
	LQ																								
(M3000)F2	MED	310	300	300	300	310	310	315	340														325	315	300
	CNT	11	12	11	16	15	20	21	13	1						1					2	4	11	14	16
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED								190	265	320	345	355	370	360	350	335	290	U 210						
	CNT								20	28	26	23	23	21	22	24	22	25	14						
h'E	MEQ																								
	CNT																								
foEs	MED	E	E	E	E	E	E	E	E	E	E	E	E			E	E	E		E	E	E	E	E	E
	CNT	10	10	10	10	10	10	10	19	26	32	33	36	39	35	35	34	29	20	10	10	10	10	10	10
		27	28	28	26	27	26	27	26	28	27	26	28	28	27	27	24	26	27	26	27	28	28	28	28

SWEEP 1.0 MC TO 16.0 MC IN 1 MINUTE 45 SECONDS. MAY, 1959

TABLE 68

TROMSO, NORWAY (69.7N, 19.0E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	56	56	56	55	60	62	68	70	74	85	88	85	90	90	88	88	84	80	72	72	63	59	60	58
	CNT	8	14	14	20	15	21	20	23	24	24	26	29	29	29	29	28	28	27	26	20	17	12	13	13
	UQ	62	63	64	62	67	71	72	82	88	97	98	102	103	98	98	98	96	91	87	76	69	66	64	64
	LQ	48	46	44	46	54	56	62	55	60	68	70	69	73	72	68	68	68	68	63	65	54	56	52	51
h'F2	MED									530	535	540	500	475	450	470	415								
	CNT					1		3	4	6	7	7	8	8	7	6	8	3	1	1					
	UQ									600	560	550	520	510	495	515	470								
	LQ									260	450	410	470	445	440	440	325								
h'F	MED	350	390	340	340	310	285	260	250	250	245	240	240	240	240	240	250	250	260	265	290	310	350	330	340
	CNT	14	18	13	11	15	18	18	22	17	22	24	27	25	28	24	23	26	26	26	24	25	23	20	17
	UQ	400	445	420	385	350	300	265	265	255	250	250	245	240	245	250	260	260	265	290	325	340	390	350	395
	LQ	340	315	310	315	290	265	250	250	250	240	235	240	240	240	240	240	245	250	260	265	290	290	310	300
(M3000)F2	MED	230	220	225	230	255	255	255	255	255	255	255	250	255	255	255	255	265	270	270	270	255	250	245	230
	CNT	7	11	3	15	14	16	18	22	22	23	25	27	29	28	28	26	28	27	22	20	15	6	8	10
	UQ	240	240	240	240	255	265	270	255	260	270	270	255	255	270	260	270	270	285	280	270	255	255	250	240
	LQ	21	220	220	220	235	245	255	230	240	240	230	240	245	250	240	255	255	260	270	255	230	240	235	220
foF1	MED											500	510	510		465									
	CNT					1		3	4	4	4	5	7	7	4	5	2	1		1					
foE	MED					195	220	250	285	310	320	325	335	340	330	325	310	290	270	240	220				
	CNT	1	1	1	2	5	10	14	15	15	16	18	20	20	20	20	17	18	17	15	10	4	2		
h'E	MED					115	110	110	110	110	110	110	110	110	110	110	110	110	110	115	115	115			
	CNT	1	2	1	1	6	8	13	14	16	17	19	20	21	17	20	18	20	16	15	10	5	2	2	
foEs	MED	40	40	40	40	40	34	32	30	G	G	G	G	G	G	G	G	G	G						
	CNT	23	27	27	23	23	24	20	22	18	18	21	23	21	26	24	26	28	28	30	29	38	50	32	39
																						26	30	28	29

SWEEP 0.7 MC TO 25.0 MC IN 5 MINUTES. AUTOMATIC OPERATION. APRIL, 1959

TABLE 69

OTTAWA, CANADA (45.4N, 75.9W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	60	57	55	50	48	50	59	70	74	82	84	88	93	98	100	100	98	98	98	97	90	80	70	68
	CNT	29	29	30	30	30	30	30	29	30	30	30	30	30	30	30	30	30	30	30	29	29	28	29	29
	UQ																								
	LO																								
h'F2	MED									U	U							U	U						
	CNT									380	360	420	400	400	410	420	420	380	410						
	UQ									5	8	11	16	14	16	15	13	7	7						
	LO																								
h'F	MED	300	300	300	300	300	290	260	250	240	230	220	210	220	230	230	230	240	250	260	260	250	260	240	300
	CNT	27	27	25	28	24	30	30	30	30	30	30	30	30	30	29	29	28	30	29	29	29	29	28	27
	UQ																								
	LO																								
(M3000)F2	MED							U	300	270	U	280	280	270	270	260	U	270	U	270					
	CNT	4	3	1	1	3		5	10	11	8	11	15	12	16	12	9	9	6	2		3	3		1
	UQ																								
	LO																								
foF1	MED									U	500	540	550	580	580	590	580	540	U	500	U	460			
	CNT								3	6	12	15	16	15	18	16	14	9		7					
foE	MED						U	170	230	290	330	350	380	390	400	400	380	360	330	300	230	170			
	CNT							9	29	29	29	30	30	30	30	30	30	29	29	30	29	15			
h'E	MED								125	115	110	110	105	105	105	110	105	110	110	110	120				
	CNT						4		28	29	28	30	30	29	30	29	28	28	29	30	26	2			
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 20.0 MC IN 16 SECONDS. APRIL, 1959

TABLE [illegible]

TOWNSVILLE, AUSTRALIA (19.3S, 146.7E) TIME 150.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED			U	D	D			E	U	U	D	U		U		U		D						
	CNT	2	1	1	1	7	55		23	75	95	107	118	120	125	127	116	3	84						
	UQ					2	8	3	5	5	8	8	6	5	7	8	6	5	1				1	1	1
	LO																								
h'F2	MED																								
	CNT								1	2	1	3	2	3	4	380	380	3	1						
	UQ															5	5								
	LO																								
h'F	MED	315	310	300	300	290	270	270	250	245	235	235					U	235	250	260	U	310	340	340	320	310
	CNT	14	13	12	13	14	13	14	12	12	9	8	2	2	3	3	5	6	8	7	9		9	12	13	11
	UQ																								
	LO																								
(M3000)F2	MED																								
	CNT								1	4	2	2	3	3	4	4	4								
	UQ																								
	LO																								
foF1	MED																610								
	CNT								1	2	1	3	4	3	3	2	5	2							
foE	MED							210	305	355	390	U	410	430			410	390	365	330	255				
	CNT							10	13	12	12	8	9	4	3	5	6	7	12	6	1				
h'E	MED																								
	CNT																								
foEs	MED	30	32	U	32	27	E	E	E	E	E														
	CNT	14	13	12	13	16	10	21	30	40	55	42	63	72	82	54	48	66	48	42	40	41	42	34	32
						13	14	14	13	13	12	10	9	8	7	9	9	12	15	14	13	13	12	12	12

SWEEP 1.0 MC TO 16.0 MC IN 1 MINUTE 55 SECONDS. JANUARY, 1959

TABLE 71

TRELEW, ARGENTINA (43.2S, 65.3W) TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U	U	U	U	U	U			D	D	U	U	U	U	U	U	U	U	U	U	U	D	D	U
	CNT	87	89	83	81	80	79	85	90	90	90	90	93	104	98	94	90	90	90	89	82	72	68	70	89
	UQ	5	6	5	6	7	8		9	8	2	4	3	2	3	3	2	4	5	5	5	4	1	1	3
	LO																								
h'F2	MED								U	U	U		U	U	U	U	U		U						
	CNT								415	400	405	435	445	405	415	430	440	410	380						
	UQ								2	1	3	5	4	2	4	4	4	5	3						
	LO																								
h'F	MED	340	320	U	310	340	330	295	250	235	U	U	U	U	U	U	U	U	U	U	U	U		U	U
	CNT	5	5		4	6	7	4	8	7	230	220	220	240	220	210	200	225	240	250	250	300		415	380
	UQ										1	1	1	1	1	3	1	1	3	1	3	1		1	2
	LO																								
(M3000)F2	MED	240	245	240	240	240	230	260	250	U	U	U	U	U	U	U	U	U	U		U	U			U
	CNT	5	7	6	7	8	8		6	245	240	240	250	260	260	250	250	260	260	270	265	260			240
	UQ									4	1	2	2	2	2	2	2	3	4	5	4	1			2
	LO																								
foF1	MED								U	U	U	U	U	U	U	U	U	U	U	U					
	CNT								630	610	530	610	600	610	600	600	590	600	600	510					
	UQ								2	2	1	4	1	1	2	4	3	3	1	1					
	LO																								
foE	MED					U	200	290	U										U						
	CNT					130	8	6	325										355						
	UQ					1			1										1						
	LO																								
h'E	MED						U				U		U	U	U	U	U	U			U				
	CNT						145	99	95	95	95	95	97	97	97	95	95	95	97	96	97				
	UQ						3	8	9	8	3	6	2	1	3	4	4	4	6	6	1				
	LO																								
foEs	MED																								
	CNT																								

SWEEP 1.3 MC TO 18.0 MC IN 30 SECONDS. JANUARY, 1959

TABLE 72

KERGUELEN I. (49.4S, 70.3E) TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	48	40	42	42	49	58	65	70	D	D	D	D	D											
	CNT	12	11	8	5	8	13	10	10	73	73	72	73	71	70	78	76	70	66	65	62	58	56	52	48
	UQ									9	9	8	7	8	9	8	15	22	23	21	22	16	22	15	11
	LO																								
h'F2	MED						U																		
	CNT						520	550	520	540	522	542	555	562	560	560	548	520	500	450					
	UQ						3	10	17	16	16	14	12	16	17	17	22	21	20	6					
	LO																								
h'F	MED	300	325	342	355	325	275	250	235	225	220	220	222	225	210	210	222	230	230	245	250	270	265	275	290
	CNT	17	21	19	18	20	18	19	12	14	15	6	8	9	12	8	16	18	21	19	18	20	23	23	21
	UQ																								
	LO																								
(M3000)F2	MED	240	232			238	238													248	265	278	270	265	260
	CNT	10	6	6	3	8	14	13	19	18	17	19	18	19	20	18	24	25	25	20	19	12	19	10	9
	UQ																								
	LO																								
foF1	MED						U		U																
	CNT						370	450	510	510	520	540	560	550	550	550	540	520	500	460					
	UQ						1	9	11	17	18	18	13	16	21	15	22	21	16	6					
	LO																								
foE	MED		E		F									U		U	U	U					E	E	E
	CNT		1		6	155	210	275	320	360	370	400	405	410	400	390	380	370	320	300	250	180			
	UQ					9	16	13	7	10	8	7	9	9	8	4	9	11	12	18	21	13	10	4	2
	LO																								
h'E	MED		E		E																		E	E	E
	CNT		1		6	120	115	110	100	100	100	100	100	100	100	100	100	102	100	108	112	120			
	UQ					6	11	18	17	20	18	15	15	20	21	18	21	22	23	24	22	10	10	4	2
	LO																								
foEs	MED	32	28	30	29	25	31	35	35	32	40	46	48	52	43	45	42	38	32	32	32	32	32	28	36
	CNT	27	25	26	21	21	24	20	18	22	16	18	16	21	19	19	23	23	22	25	23	21	26	26	26

SWEEP 1.2 MC TO 17.0 MC. DECEMBER, 1958

TABLE 73

QECEPCION 1. 163.0S. 60.1W) TIME 60.0W

HOUR		QQ	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED				Q	Q	Q																U		
	CNT				100	102	105	109	104	122	113	111	108	103	94	101	90	94	92	90	90	92	93		
	UQ																								
	LQ				1	2	2	9	9	6	8	6	7	9	1	5	6	8	5	11	5	2	1		
h'F2	MED					425	400	420	400	420	425	420	405	445	510	450	435	430	450	455	350	345			
	CNT					1	1	8	6	4	6	4	6	8	1	3	2	3	2	2	1	1			
	UQ																								
	LQ																								
h'F	MED				340	U							U									U			
	CNT				1	380	350	235	260		240		250	260				250				250			
	UQ					1	1	2	3		1		1	1				1				1			
	LQ																								
(M3000)F2	MED					U																	U		
	CNT					240		230	230	240	225	235	235	245	225	240	240	250	250	240	250	250	240		
	UQ																								
	LQ					1		8	6	5	7	6	6	9	1	5	6	7	5	9	5	2	1		
foF1	MED							550	580	620	710	760	700	780			640	690	690						
	CNT							5	2	4	5	2	4	7			2	3	1						
foE	MEQ																								
	CNT																								
h'E	MEQ																								
	CNT																								
foEs	MEQ																								
	CNT																								

SWEEP 1.3 MC TO 18.0 MC IN 30 SECONDS. DECEMBER, 1958

TABLE 74

TERRE ADELIE 166.7S. 140.0E) TIME 135.0E

HOUR		QQ	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ		U																						
	CNT	55	54	51	50	53	59	59	59	62	62	70	69	68	68	66	66	70	66	69	68	65	60	56	55
	UQ																								
	LQ	15	19	17	22	15	19	18	18	15	18	15	14	20	17	20	25	23	25	24	23	24	18	20	18
h'F2	MEQ		U	U		510	508	520	550	540	550	500	480	500	510	510	502	505	478	445	442	405	472	U	
	CNT		450	410	535																			545	
	UQ																								
	LQ		1	2	6	9	14	13	16	14	17	15	15	23	17	21	22	24	24	25	20	9	6	4	
h'F	MEQ				Z	Z	Z											230	Z	Z	Z	Z	Z		
	CNT	300	300	292	265	250	250	248	240	225	225	220	215	210	210	210	220		240	250	255	265	280	300	300
	UQ																								
	LQ	25	23	22	28	25	25	20	19	14	14	7	5	16	17	19	25	23	24	28	28	26	25	28	27
(M3000)F2	MEQ					G	G	G	U	U	G	G	G	G	G	G	G	G	G						
	CNT	275	270	270	250	242	235	245	242	228	225	235	238	230	228	232	235	235	240	245	245	245	245	245	260
	UQ																								
	LQ	7	9	8	7	8	8	7	4	4	8	7	10	11	10	8	11	14	13	17	14	16	15	11	9
foF1	MEQ	U	U																						
	CNT	300	310		360	400	450	480	480	500	510	510	520	510	510	510	510	490	480	450	410	380	320	U 300	U 290
	UQ																								
	LQ	1	1		10	10	17	24	24	19	19	17	18	24	20	23	27	25	25	26	22	7	6	3	1
foE	MEQ							U																	
	CNT	145	150	220	245	275	300	320	348	360	370	382	390	385	375	370	360	345	325	300	280	250	200	160	148
	UQ																								
	LQ	6	7	12	18	19	21	16	14	11	13	10	11	15	17	17	20	21	21	24	23	23	17	11	8
h'E	MEQ	E	U			Z													Z	Z		Z			E
	CNT		140	120	112	110	105	105	100	100	100	100	100	100	100	100	100	105	105	110	110	112	110	145	
	UQ																								
	LQ	7	3	7	16	15	22	18	25	25	28	28	27	27	29	26	24	20	22	19	16	14	8	6	6
foEs	MEQ							G	G	G	G	G	G	G	G	G	G								
	CNT	31	31	26	26	30	21											36	32	31	31	28	26	21	26
	UQ																								
	LQ	31	31	31	31	31	31	30	30	29	31	30	30	30	29	30	30	28	28	29	29	30	30	31	31

SWEEP 1.2 MC TO 17.0 MC IN 1 MINUTE. DECEMBER, 1958

TABLE 75

PRUHONICE, CZECHOSLOVAKIA 150.0N. 14.6E) TIME 0.0

HOUR		QQ	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	49	46	45	43	39	38	60	90	116	139	142	144	140	138	139	126	100	95	79	66	55	49	46	47
	CNT	30	27	25	27	27	26	26	18	20	26	26	26	24	27	19	18	17	21	24	26	25	27	26	27
	UQ																								
	LQ																								
h'F2	MEQ																								
	CNT																								
	UQ																								
	LQ																								
h'F	MEQ	300	280	270	255	250	245	230	210	215	220	220	220	220	230	225	220	215	220	225	235	255	270	300	305
	CNT	29	26	27	27	27	26	27	26	29	30	29	30	27	29	29	29	30	30	29	30	28	28	24	23
	UQ																								
	LQ																								
(M3000)F2	MEQ																								
	CNT																								
	UQ																								
	LQ																								
foF1	MEQ																								
	CNT																								
foE	MEQ																								
	CNT							200	240	270	300	310	320	310	290	260	200								
	UQ							4	19	22	18	20	18	22	22	19	13	1							
h'E	MEQ																								
	CNT																								
foEs	MEQ																								
	CNT																								

SWEEP 1.0 MC TO 18.0 MC. NOVEMBER, 1958

TABLE 76

SALISBURY, SOUTHERN RODESIA (17.8S. 31. E) TIME 30.0E

HOUR		QQ	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ							U	U	U	U	U				U	U	E							
	CNT							70	90	90	98	120				106	94	90							
	UQ																								
	LQ							4	6	4	4	1				2	5	3	2						
h'F2	MEQ									U	U				U	U	U	U							
	CNT									340	290				350	360	350	330							
	UQ																								
	LQ									1	1				1	1	3	2							
h'F	MEQ			U	U	U	U					U			U	U			U						
	CNT			300	240	235	250	250	220	220	200	245			210	220	210	230	230						
	UQ																								
	LQ			1	1	2	4	8	12	10	9	4			1	4	8	7	3						
(M3000)F2	MEQ							U	U	U						U	U	U							
	CNT							330	335	340						355	275	320							
	UQ																								
	LQ							1	2	1						1	3	1							
foF1	MEQ															U	U								
	CNT															700	690								
	UQ																								
	LQ															1	4								
foE	MEQ										U	U				U									
	CNT							280	400	390	400	370				440	400	380							
	UQ																								
	LQ							5	5	7	3	1				2	7	7							
h'E	MEQ										U	U				U									
	CNT							100	100	100	100	100				100	100	100							
	UQ																								
	LQ							5	5	7	3	1				2	7	7							
foEs	MEQ			E	E	E	E	G	G	G	E	G			E	G	G	G	U						
	CNT			20							26				49				35						
	UQ																								
	LQ			1	2	3	4	8	12	10	10	4			1	4	8	8	3						

SWEEP 1.0 MC TO 16.0 MC IN 7 SECONDS. NOVEMBER, 1958

TABLE

KERGUELEN I. (49.4S, 70.3E) TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	45	U 40	38	37	43	54	65	70	76	82	83	86	88	90	92	86	82	79	76	72	U 66	60	56	46
	CNT	11	4	6	6	8	16	17	17	12	11	11	13	17	14	15	19	22	22	20	22	19	23	14	12
	UQ																								
	LQ																								
h'F2	MED						U 575	545	550	550	525	510	500	502	505	490	470	485	475						
	CNT						2	8	12	17	18	15	24	26	26	26	25	16	6						
	UQ																								
	LQ																								
h'F	MED	300	345	350	350	350	290	250	245	240	230	225	220	215	238	225	230	232	250	250	252	260	260	280	290
	CNT	27	28	27	23	21	26	25	25	27	22	22	13	17	14	16	19	24	27	30	28	26	24	29	28
	UQ																								
	LQ																								
(M3000)F2	MED	235					240	240						220			225	230	245	255	260	265	255	255	235
	CNT	13	12	7	8	10	14	20	24	21	18	15	22	21	23	19	21	23	24	18	15	10	20	12	10
	UQ																								
	LQ																								
foF1	MED						U 380	450	470	520	550	550	560	570	580	580	550	530	U 510						
	CNT						1	6	10	17	18	16	22	23	23	23	23	14	4						
foE	MED				E	105	190	255	310	350	360	380	390	390	375	360	338	330	310	260	205	158	E		
	CNT				2	11	22	25	19	20	21	17	12	15	16	17	20	18	23	25	23	16	1		
h'E	MED				E	E	125	115	115	110	110	105	105	105	100	105	105	105	110	115	115	E	E		
	CNT				2	13	15	16	21	23	21	21	24	25	28	28	26	19	23	21	12	12	1		
foEs	MED	23	24	30	28	32	32	29	30	32	40	42	48	50	45	50	45	42	32	32	25	24	33	32	32
	CNT	29	30	29	28	28	27	28	27	27	25	24	27	28	27	29	26	29	29	29	26	28	28	28	29

SWEEP 1.2 MC TO 17.0 MC. NOVEMBER, 1958

TABLE 78

MACQUARIE I. (54.5S, 159.0E) TIME 150.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D 45	D 45	D 45	D 45	D 45	D 54	D 60	D 63	D 68	U 72							D 52	D 46	D 48	D 45	D 46	D 45	D 45	D 43
	CNT	9	10	11	14	15	12	4	7	6	5	3	2	2	4	3	4	8	14	15	13	13	9	7	5
	UQ	45	46	45	53	55	58	64	75	74	76							70	50	60	58	56	47	45	45
	LQ	40	45	41	45	45	46	56	60	67	66							47	46	46	45	45	44	40	38
h'F2	MED								490	505	550														
	CNT						1	1	6	6	5	3	1	1	3	3	3	2	1						
	UQ																								
	LQ																								
h'F	MED	400	360	360	325	280	260	250	245	240	230	220	220	220	230	230	230	240	250	270	280	310	330	350	320
	CNT	9	10	11	14	15	15	15	16	15	19	11	12	14	19	21	18	20	17	16	13	13	9	7	5
	UQ																								
	LQ																								
(M3000)F2	MED								235																
	CNT	2	1	2	4	3	1	3	5	4	4	3	1	1	3	3	1	2	1	2				1	1
	UQ								240																
	LQ								210																
foF1	MED							D 470	D 480	D 460	D 470	D 480	D 460	D 470	D 460	D 460	D 460	D 470							
	CNT						4	8	15	12	19	11	12	14	19	21	18	16	4	1					
foE	MED				170	230	285	330	350	370	380	390	390	390	380	370	355	335	300	240	160				
	CNT				11	15	14	15	15	15	19	12	16	15	20	21	16	20	16	15	10				
h'E	MED				100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100				
	CNT				9	14	14	15	15	15	19	12	16	15	20	21	16	20	16	15	10				
foEs	MED	U 46	37	32	E 17	E 23	E 28	E 33	E 35	E 37	E 38	E 39	E 39	E 39	E 38	E 37	E 36	E 34	36	38	31	36	D 45	45	D 45
	CNT	16	15	15	16	15	15	15	15	15	18	12	17	15	20	22	18	21	18	18	18	20	19	17	17

SWEEP 1.0 MC TO 13.0 MC IN 1 MINUTE 55 SECONDS. NOVEMBER, 1958

TABLE 79

TERRE ADELIE (66.7S, 140.0E) TIME 135.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	57	52	55	58	57	59	U 63	62	70	U 74	72	74	70	76	80	76	78	77	75	74	70	64	66	60
	CNT	16	18	15	14	17	15	21	18	17	15	17	21	17	22	23	24	23	26	21	22	13	14	19	20
	UQ																								
	LQ																								
h'F2	MED					448	500	450	500	492	455	472	455	480	475	450	455	445	435	425	400				
	CNT					6	11	19	19	18	17	22	23	20	20	27	27	23	22	11	6				
	UQ																								
	LQ																								
h'F	MED	295	300	298	270	260	250	Z 245	Z 240	232	225	225	220	Z 220	Z 220	Z 220	Z 230	Z 245	Z 250	Z 255	Z 268	Z 290	Z 275	292	290
	CNT	26	24	24	25	29	27	23	21	16	13	13	14	18	23	22	25	23	27	29	28	28	28	28	28
	UQ																								
	LQ																								
(M3000)F2	MED	272	255	260	268	258	250	G 245	G 235	248	245	235	238	G 235	232	235	238	245	245	250	250	255	255	260	260
	CNT	10	14	9	10	8	7	11	5	10	12	13	14	11	12	14	16	19	21	17	18	11	6	11	13
	UQ																								
	LQ																								
foF1	MED				U 350	400	430	480	500	500	500	510	510	510	520	520	500	490	460	420	420				
	CNT				1	5	13	20	26	25	21	21	21	23	24	28	28	24	20	10	7				
foE	MED	E	E	155	230	255	280	300	325	350	352	362	370	370	355	352	340	320	295	270	248	210	155	E	E
	CNT	16	10	7	14	20	17	20	18	11	12	8	16	16	19	20	20	23	23	24	20	17	17	17	16
h'E	MED	E	E	E	Z 120	Z 115	Z 110	Z 105	Z 105	105	100	100	100	100	Z 100	Z 100	Z 105	Z 105	Z 105	Z 110	Z 112	125	E	E	E
	CNT	18	19	12	9	16	22	26	29	29	25	27	29	28	27	25	25	22	19	17	14	9	13	17	17
foEs	MED	27	34	28	31	28	G	G	G	G	G	G	G	G	G	G	G	G	34	28	25	22	21	22	29
	CNT	30	30	30	30	30	30	29	30	30	26	29	29	29	29	30	29	30	30	30	30	30	29	30	30

SWEEP 1.2 MC TO 17.0 MC IN 1 MINUTE. NOVEMBER, 1958

TABLE 80

JULIUSRUH/RUGEN, GERMANY (54.6N, 13.4E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	66	65	59	56	55	54	55	78	100	123	134	136	140	139	138	136	131	124	116	101	87	77	74	69
	CNT	27	26	26	24	27	27	28	27	30	29	30	31	31	31	31	29	28	28	26	27	29	28	27	29
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	E 300	E 310	E 300	300	290	280	280	250	240	240	235	230	230	230	235	240	240	240	240	245	240	E 255	E 290	E 300
	CNT	30	29	29	29	29	31	30	30	31	30	30	28	31	30	31	28	27	29	30	29	30	28	28	30
	UQ																								
	LQ																								
(M3000)F2	MED	250	240	240	245	250	255	265	285	290	285	280	280	280	270	270	270	280	280	275	275	275	260	255	250
	CNT	27	27	25	23	26	27	28	27	30	31	31	30	31	30	29	27	28	28	27	24	29	28	27	29
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED		E	E	E	E			200	260	285	320	340	350	345	330	300	265	200						
	CNT		6	13	13	7	1	3	20	28	24	16	19	21	22	22	21	19	17						
h'E	MED																								
	CNT																								
foEs	MED		11	11	10	12	16	U 14	G	G				G	G	G	G	G		U	U	U	U	U	
	CNT	2	12	25	25	19	13	7	18	22	32 25	35 27	35 24	28	26	25	21	21	24 20	26 9	24 7	22 7	21 5	20 5	2

SWEEP 0.5 MC TO 20.0 MC IN 20 SECONDS. OCTOBER, 1958

TABLE 81

KERGUELEN I. (49.4S, 70.3E) TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	50	45	44	41	40	47	60	70	77	81	95	100	106	107	106	106	101	100	90	92	80	68	64	56
	CNT	17	19	17	17	16	18	26	28	31	25	27	24	26	23	24	25	27	26	21	27	23	26	21	18
	UQ																								
	LQ																								
h'F2	MED							U	U										U	U					
	CNT							580	628	600	550	540	500	495	490	490	460	455							
	UQ							2	4	8	9	10	13	12	13	11	11	8	1	1					
	LQ																								
h'F	MED	300	300	320	322	325	315	265	250	245	242	230	235	240	245	242	245	245	250	250	250	245	245	250	260
	CNT	23	22	21	20	20	22	28	29	31	28	27	27	30	21	24	22	27	28	26	25	27	27	25	23
	UQ																								
	LQ																								
(M3000)F2	MED	260	252	250	245	250	265	270	260	260	250	242	240	240	245	242	250	250	250	260	272	275	275	270	265
	CNT	15	14	13	13	9	14	23	28	29	24	26	21	24	23	24	25	21	15	14	20	23	22	20	17
	UQ																								
	LQ																								
foF1	MED							U	U										U	U					
	CNT							410	430	490	540	550	570	560	570	540	540	490	430	490					
								3	4	8	9	9	10	8	11	10	9	8	1	1					
foE	MED		E	E	E	E																E	U	U	U
	CNT		4	3	3	3	112	240	285	320	350	370	380	370	380	360	338	320	280	220	125	2	122	110	100
							8	23	28	30	25	21	17	19	14	16	16	20	21	18	9		4	3	5
h'E	MED	E	E	E	E	E	E														E	E		U	E
	CNT	1	5	3	3	3	8	110	105	105	105	105	105	105	105	105	105	105	105	108	2	2	145	150	5
								10	19	27	28	26	25	28	26	26	22	20	16	8			5	3	
foEs	MED	15	15	16	18	15	15	16	G	G	G	G	G		G			G	G			23	15	15	15
	CNT	25	26	25	26	23	20	26	25	28	28	30	26	38	25	36	34	24	26	26	16	25	29	27	28
														29		27	26			19	24				

SWEEP 0.88 MC TO 14.14 MC IN 10 MINUTES. AUTOMATIC OPERATION. OCTOBER, 1958

TABLE 82

MACQUARIE I. (54.5S, 159.0E) TIME 150.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D	D	D		D	D								D		D	D	D	D	D	D	D		D
	CNT	46	46	42		44	45								78		53	66	65	58	56	54	45		42
	UQ	6	6	5	4	6	5	2	2	2	2	2	4	4	5	2	5	5	5	8	10	8	6	2	5
	LQ	55	50	48		48	55								78		76	70	70	65	60	58	50		49
		40	42	40		43	45								62		48	46	46	50	45	46	43		42
h'F2	MED																								
	CNT								1	2	1	1	3	4	3	2	1								
	UQ																								
	LQ																								
h'F	MED	265	260	280		250	220						215	200	220	210	210	230	230	235	275	260	260		280
	CNT	6	6	5	4	6	5	4	4	4	3	3	6	7	6	6	9	9	8	8	10	8	6	2	5
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT		2	1	2	2	1	1	2	2	2	2	4	3	2	1						1			
	UQ																								
	LQ																								
foF1	MED												590	D			D	D							
	CNT							3	3	4	2	2	5	570	4	4	480	460	3						
														7			8	6							
foE	MED					170	245						395	385	380	370	340	310	270						
	CNT					6	5	4	4	4	3	3	6	7	6	6	10	9	7	4					
h'E	MED												100	100	100	100	100	100	100						
	CNT					4	4	4	4	4	3	3	6	7	6	6	9	9	7	4					
foEs	MED	36	E	32	E	E	E						E	E	E	E	E	E	E						
	CNT	9	21	7	10	17	24						40	38	38	37	34	31	28	28	37	40	38	46	40
			6		5	6	5	4	4	4	3	3	6	8	7	7	9	9	8	9	13	12	10	8	9

SWEEP 1.0 MC TO 13.0 MC IN 1 MINUTE 55 SECONDS. OCTOBER, 1958

TABLE 83

TERRE ADELIE (66.7S, 140.0E) TIME 135.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U		U		U				U		U	U			U	U			U	U	U	U	U	U
	CNT	46	50	48	44	50	59	56	70	72	80	76	75	81	69	80	79	82	85	76	80	70	60	56	50
	UQ	16	20	15	13	14	21	11	13	19	20	14	15	20	12	22	23	22	22	16	16	19	14	15	16
	LQ																								
h'F2	MED						595	400	400	400	410	452	430	410	410	472	455	425	438	U 425					
	CNT						7	11	17	18	19	22	21	22	19	15	14	14	6	3					
	UQ																								
	LQ																								
h'F	MED	300	300	308	302	295	Z 280	Z 260	Z 250	Z 250	240	Z 240	240	Z 230	Z 235	Z 240	Z 245	Z 250	Z 255	Z 275	Z 290	290	280	282	290
	CNT	31	30	28	24	25	29	27	26	20	11	10	18	25	29	29	31	29	27	29	29	29	29	28	26
	UQ																								
	LQ																								
(M3000)F2	MED	245	250	257	240	U 270	252	248	250	240	250	U 245	245	230	220	235	240	235	245	245	U 290	U 255	U 255	U 245	U 245
	CNT	5	7	6	7	4	10	8	9	7	8	4	7	9	6	8	12	12	13	7	9	14	5	6	7
	UQ																								
	LQ																								
foF1	MED						U 360	400	430	480	500	500	500	500	500	500	480	470	450	U 400					
	CNT						5	10	19	18	21	20	22	24	22	20	14	13	7	3					
foE	MED	E	E	E	E							U										E	E	E	E
	CNT	3	9	15	16	178	240	262	300	332	350	350	365	358	350	338	315	290	262	225	138	18	11	6	4
						12	22	20	25	20	14	11	19	27	25	30	28	27	24	21	14				
h'E	MED	E	E	E	E	E			Z					Z	Z	Z	Z	Z	Z	Z	E	E	E	E	E
	CNT	3	9	18	15	12	110	110	110	110	105	105	105	105	105	105	110	115	118	115	15	22	11	7	4
							16	24	28	26	28	29	30	29	29	30	29	27	24	15					
foEs	MED	30	20	28	24	31	25	G	G	G	G	G	G	G	G	G	G	G		30	28	26	19	19	20
	CNT	30	31	27	27	23	31	31	31	31	30	29	31	31	30	31	31	30	30	31	31	31	31	31	31

SWEEP 1.2 MC TO 17.0 MC IN 1 MINUTE. OCTOBER, 1958

TABLE 84

KERGUELEN I. (49.4S, 70.3E) TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	43	43	43	41	40	39	48	80	92	103	114	108	113	114	116	121	120	120	105	104	87	69	60	50
	CNT	14	11	9	8	16	13	7	17	21	21	18	14	10	10	12	13	15	13	10	16	19	18	16	14
	UQ																								
	LQ																								
h'F2	MED								U 540		U 600	U 525	U 500	U 490	U 290										
	CNT								1		1	1	1	1	1										
	UQ																								
	LQ																								
h'F	MED	254	268	290	300	295	300	260	238	215	215	215	212	210	210	212	215	220	220	215	215	210	210	230	230
	CNT	20	18	19	17	18	18	20	25	24	21	21	22	21	22	24	23	25	25	21	22	23	25	22	23
	UQ																								
	LQ																								
(M3000)F2	MED	270	260	260	252	255	U 260	U 295	310	312	295	285	270	260	260	258	270	270	282	290	292	300	295	300	290
	CNT	8	5	6	6	5	4	2	16	20	17	13	11	6	7	8	8	9	8	6	10	16	15	13	11
	UQ																								
	LQ																								
foF1	MED								U 390		U 490	U 530	U 530	U 570											
	CNT								1		1	1	1	1											
foE	MED	E	E		U																E	E	E	E	E
	CNT	2	1		80			125	235	290	328	350	360	380	370	350	332	300	240	180		2	4	4	3
					1			10	17	22	22	20	18	20	21	20	22	23	20	11	6				
h'E	MED	E	E		E			130	110	110	105	105	105	105	105	105	110	110	110	110	E	E	E	E	E
	CNT	3	3		1			7	11	19	20	21	19	20	18	19	20	20	16	5	7	3	2	5	3
foEs	MED	15	15	14	15	14	12	15	G	G	G	G	G	G	G	G	G	G		15	16	15	13	12	14
	CNT	21	19	17	20	16	17	17	17	20	21	21	19	21	24	24	24	24	22	16	16	19	20	19	19

SWEEP 0.88 MC TO 14.14 MC IN 10 MINUTES. AUTOMATIC OPERATION. SEPTEMBER, 1958

TABLE 85

TERRE ADELIE (66.7S, 140.0E) — TIME 135.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U	U	U	U	U	U	U	U		U	U				U		U	U	U		U	U		U
	CNT	52	48	46	55	40	48	46	60	80	85	92	80	80	78	70	82	100	86	90	81	67	68	68	52
	UQ	15	15	11	10	8	12	12	9	11	5	11	6	10	8	3	8	13	12	12	13	8	9	8	10
	LQ																								
h'F2	MED						U				U						U	U							
	CNT						700			425	350	370	360	450	410	360	335	400							
	UQ						1			5	4	8	9	7	7	5	4	2							
	LQ																								
h'F	MED	270	290	308	305	290	280	292	250	255	250	250	Z	245	240	250	250	250	260	258	250	260	252	250	250
	CNT	24	23	24	18	22	22	20	19	17	14	18	242	16	20	20	20	20	22	24	24	24	24	24	22
	UQ												16												
	LQ																								
(M3000)F2	MED	U	U	U	U		U	U	U			U	U	U	U	U	U	U		U		U	U	U	U
	CNT	245	252	270	260		262	270	285	250		240	275	275	238	235	250	255	250	250	262	230	270	242	272
	UQ	2	4	1	2		2	6	3	5		1	2	2	4	4	3	3	7	5	8	1	2	2	2
	LQ																								
foF1	MED						U				U	U	U	U		U		U							
	CNT						240			410	460	450	490	480	430	400	430	410							
							1			5	4	4	9	7	8	6	4	1							
foE	MED	E	E	E	E	E	E					U	U	U		U				E	E	E	E		E
	CNT							175	225	260	285	300	310	310	310	300	275	245	220						
		1	2	8	6	8	9	9	10	13	11	11	13	17	17	16	21	16	6	9	7	2	1		1
h'E	MED	E	E	E	E	E	E	E		Z										E	E	E	E		E
	CNT								115	115	115	115	110	112	115	115	115	120	130						
		2	2	8	7	10	12	5	9	12	15	18	15	16	14	15	13	11	6	11	7	2	1		1
foEs	MED	E	E	E						G	G	G	G	G	G	G	G	U		G	E	E	E	E	E
	CNT				20	18	19	19	20										19						
		24	24	24	23	23	23	23	23	22	22	20	21	21	24	23	24	24	23	23	22	24	24	23	24

SWEEP 1.2 MC TO 17.0 MC IN 1 MINUTE. — SEPTEMBER, 1958

TABLE 86

HALLEY BAY, ANARCTICA (75.5S, 26.6W) — TIME 30.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U	U	U	U	U	U	U	U	U				U				U				U	U	U	U
	CNT	63	58	59	59	64	60	73	69	73	86	945	103	1065	110	113	113	114	108	99	88	75	65	635	60
	UQ	17	20	22	21	21	21	19	24	27	27	28	27	30	30	29	28	28	27	25	23	21	19	14	16
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	325	377	375	350	332	320	285	260	250	250	250	240	245	240	240	240	245	240	240	240	242	250	277	340
	CNT	21	26	27	25	24	25	26	25	22	27	25	27	26	26	28	30	29	29	27	23	22	21	24	25
	UQ																								
	LQ																								
(M3000)F2	MED	U	U	U	U		U	U		U				U				U			U	U	U	U	U
	CNT	240	220	245	240	240	230	255	265	285	285	295	290	290	300	300	300	300	305	310	295	290	280	270	235
	UQ	8	4	6	6	8	10	12	13	17	22	22	23	25	25	26	21	17	18	21	16	13	9	1	4
	LQ																								
foF1	MED																								
	CNT																								
foE	MED						U						U												
	CNT						170	170	180	225	240	260	270	270	260	250	220	190	180	140					
							5	10	18	16	10	12	15	11	14	12	14	10	12	7					
h'E	MED						175	150	132	127	125	120	117	115	117	120	120	125	145	150					
	CNT						4	9	12	14	10	11	12	10	14	11	10	8	9	8					
foEs	MED								E	E	E	E	E	E	E	E	E	E	E	E	E	E		E	
	CNT	13	135	13	125	13	14	14	18	225	24	26	27	27	26	25	22	19	18	14	10	12	112	10	11
		24	25	29	21	22	17	11	19	17	14	15	15	13	14	15	12	11	18	18	18	20	22	23	26

SWEEP 0.65 MC TO 25.0 MC IN 5 MINUTES. AUTOMATIC OPERATION. — SEPTEMBER, 1958

TABLE 87

EUREKA, CANADA (80.0N, 85.9W) — TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	62	60	60	60	60	60	60	62	58	58	58	59	60	60	63	63	60	60	60	61	62	62	61	61
	CNT	22	22	23	23	23	23	22	21	22	23	23	22	22	20	20	21	22	23	23	23	22	22	22	22
	UQ																								
	LQ																								
h'F2	MED					U	U	U														U	U		U
	CNT					400	390	390	410	470	470	430	480	430	480	460	450	440	440	440	420	370	360		360
	UQ	2	2	4	3	5	8	10	13	16	20	13	18	21	16	17	18	17	15	15	13	9	7	3	5
	LQ																								
h'F	MED	270	260	260	260	260	250	240	240	240	240	230	220	230	220	230	230	240	240	240	250	260	260	260	270
	CNT	20	23	23	22	17	19	19	18	16	18	18	22	19	20	19	16	17	17	21	18	14	17	20	19
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED			U		U																	U		U
	CNT			400		400	400	410	430	450	450	470	480	480	470	470	460	460	450	440	430	400	400		340
		3	3	5	3	5	10	10	12	18	20	19	21	22	21	20	20	18	18	16	14	12	8	3	5
foE	MED	240	240	240	240	250	260	270	280	300	300	310	320	320	320	320	320	310	300	290	270	270	250	240	240
	CNT	15	17	15	15	16	17	16	15	15	14	17	17	15	15	15	15	16	17	17	16	14	13	16	15
h'E	MED	135	140	U	130	125	115	115	120	110	105	100	100	100	100	U	100	U	100	100	110	120	130	130	135
	CNT	13	13	130	130	13	15	13	12	11	9	10	11	10	10	100	100	8	10	12	10	11	13	13	12
				8	15											8	11								
foEs	MED																								
	CNT																								

SWEEP 1.7 MC TO 20.0 MC IN 15 SECONDS. AUG 1 THROUGH 15TH.
1.6 MC TO 20.0 MC IN 15 SECONDS. AUG 16 THROUGH 31ST. — AUGUST, 1958

TABLE 88

SALISBURY, SOUTHERN RODESIA (17.8S, 31.0 E) — TIME 30.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U							U	U	U	U	U	U		U	U	U	U	U				U	U
	CNT	40	40	39	30	30	32	38	85	115	110	120	105	105		100	100	90	90	90				60	48
	UQ	16	19	20	19	22	19	15	4	4	9	7	3	2		1	1	2	3	1				1	4
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED								U	U	U	U	U	U		U	U	U	U	U				U	U
	CNT	350	330	340	320	330	330	330	370	350	340	330	330	310		270	340	330	360	380				370	350
	UQ	15	19	20	19	22	19	15	3	4	9	7	3	1		1	1	2	3	1				1	4
	LQ																								
foF1	MED																								
	CNT																								
foE	MED												U	U	U	U									
	CNT								250	320	350	390	360	450	380	330	370	300	260						
									10	14	21	10	4	2	4	4	20	24	7						
h'E	MED																								
	CNT																								
foEs	MED	E	E	E	E	E	E	E	G	G	G	G	G	G	G	G	G	G	G	E	E	E	E	E	E
	CNT																			22	19	19	20	15	13
		21	21	22	22	22	22	26	15	16	25	18	15	10	8	11	28	27	16	12	9	6	5	7	12

SWEEP 1.0 MC TO 16.0 MC IN 7 SECONDS. — AUGUST, 1958

TABLE 89

KERGUELEN I. 149.4S, 70.3E)

TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED				U	U	U														U				
	CNT	22	24	20	18	22	23	22	49	66	92	119	125	130	132	130	129	128	127		66	42	37	31	30
	UQ	6	5	6	3	4	4	7	10	10	6	5	17	15	15	14	16	15	8		4	11	17	14	7
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED			U	U		U																		
	CNT	278	305	305	300	320	325	300	280	250	245	240	250	240	242	242	245	240	240	240	230	230	232	252	260
	UQ	9	6	3	3	5	4	7	15	20	18	13	13	13	11	12	13	17	16	17	21	20	11	10	10
	LQ																								
(M3000)F2	MED	U	U			U	U		U									U	U						
	CNT	270	268	255	270	245	250	268	285	325	315	310	280	285	275	270	280	292	255		265	305	300	295	270
	UQ	3	2	1	1	3	4	6	3	5	4	2	9	7	5	5	6	4	1		2	7	13	8	5
	LQ																								
foF1	MED																								
	CNT																								
foE	MED									U	U	U	U	U	U		U		U				U	U	
	CNT									205	280	315	342	350	340	330	305	260	215			115	120	130	
										4	3	4	2	5	2	5	4	6	1			1	1	1	
h'E	MED										U						U	U	U		U			E	
	CNT								120		110						125	125	120		110				
									1		3						1	4	2		1			1	
foEs	MED										G	G	U	G			G								
	CNT	15	15	15	15	15	15	16	15	23			36		37	36		26	29	31	15	14	14	15	15
		11	10	12	9	10	12	12	6	4	3	7	3	8	8	6	8	8	9	9	8	12	6	7	9

SWEEP 0.88 MC TO 14.14 MC IN 10 MINUTES, AUTOMATIC OPERATION.

AUGUST, 1958

TABLE 90

CAMPBELL I. 152.5S, 169.2E)

TIME 165.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	53	49	46	47	46	40	41	58	80	100	108	118	112	114	115	105	105	103	85	75	66	61	58	59
	CNT	19	16	20	20	21	19	21	25	24	26	18	18	14	14	14	14	13	16	17	21	23	20	20	21
h'F2	MED											U	U	U	U										
	CNT											350	260	240	280										
												2	1	2	3										
h'F	MED	295	295	290	270	250	250	250	250	230	230	220	220	225	220	230	230	230	230	230	240	250	280	290	300
	CNT	28	28	28	29	28	27	29	28	30	29	29	28	30	27	28	28	26	26	26	27	28	27	27	27
(M3000)F2	MED	252	260	255	265	270	270	280	302	310	305	300	295	U 292	U 280	U 270	U 280	U 292	285	285	275	275	270	268	255
	CNT	18	16	19	19	17	18	21	24	23	21	15	10	8	7	5	6	8	11	13	19	22	20	16	20
foF1	MED											U	U	U	U										
	CNT											530	500	480	540										
												1	1	2	3										
foE	MED							U												U					
	CNT							140	180	250	290	320	330	340	330	300	280	210	150	160					
								2	22	28	28	28	25	27	25	26	25	21	15	1					
h'E	MED							E		105	105	105	110	110	110	110	110	115	170						
	CNT							1	108	25	25	25	27	26	24	26	26	19	6						
									12																
foEs	MED	30	24	20	20	18	16	14	G	G	G	G	G	G	G	G	G	G	G						
	CNT	29	28	28	28	27	28	26	25	28	28	28	28	28	27	26	28	23	21	13	14	20	20	22	25
																				23	26	27	27	28	27

SWEEP 1.0 MC TO 15.0 MC IN 5 MINUTES, MANUAL OPERATION.

AUGUST, 1958

TABLE 91

TERRE ADELIE (66.7S, 140.0E)

TIME 135.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		U	U	U	U	U	U	U
	CNT	51	38	41	40	40	31	40	40	56	60	72	80	102	80	90	84	89	94	80	78	66	62	55	54
	UQ	15	14	4	8	10	8	6	12	11	11	8	9	2	7	7	14	9	13	10	11	14	10	8	11
	LQ																								
h'F2	MED											U	U	U	U										
	CNT											360	435	332	270										
												2	1	2	2										
h'F	MED	250	250	250	270	275	285	275	270	260	260	250	250	250	250	250	250	250	250	250	250	250	250	248	250
	CNT	22	20	21	17	19	14	13	18	18	19	16	13	20	21	19	20	21	22	23	23	25	23	22	24
(M3000)F2	MED		U		U	U	U	U	U		U	U	U		U	U	U	U	U	U	U	U	U	U	
	CNT	285	272		375	260	230	270	288		275	295	250		260	260	290	280	280	265	250	275	265	265	
	UQ	6	4		1	2	1	2	2		2	2	1		1	3	1	3	4	4	3	7	3	3	
	LQ																								
foF1	MED											U	U	U	U										
	CNT											370	350	460	450										
												1	1	1	2										
foE	MED	E	E	E	E	E	E	E	E				U		U			E	E	E	E		E	E	E
	CNT	2	4	6	7	5	10	9	11	170	210	220	250	248	240	222	188	9	9	2	1		2	1	2
										13	12	6	11	10	15	12	10								
h'E	MED	E	E	E	E	E	E	E	E	E		U	U	Z	Z		U	E	E	E	E		E	E	E
	CNT	2	6	6	9	7	10	9	11	12	105	108	122	105	122	115	110	10	9	3	1		2	1	2
											6	2	4	5	6	5	4								
foEs	MED												G		U	G									
	CNT	20	20	18	30	25	24	34	36	24	20	20		25			30	20	20	29	30	22	21	23	18
		23	24	23	23	22	23	22	20	20	20	18	17	17	18	19	19	20	20	21	22	22	23	23	23

SWEEP 1.2 MC TO 17.0 MC IN 1 MINUTE.

AUGUST, 1958

TABLE 92

EUREKA, CANADA (80.0N, 85.9W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	53	53	56	54	56	54	55	53	54	54	55	55	58	57	58	59	58	59	57	56	54	54	55	56
	CNT	24	26	26	26	23	24	25	24	26	22	23	24	20	21	20	19	19	20	26	25	24	26	26	26
h'F2	MED	U																							
	CNT	400	430	400	370	420	470	460	470	480	500	500	510	490	530	500	460	470	450	500	470	480	430	400	410
		9	11	12	12	17	13	14	15	15	13	17	17	14	16	15	17	13	16	19	13	15	13	16	12
h'F	MED	250	250	240	240	250	240	230	230	240	220	220	220	220	220	210	230	220	230	220	230	240	240	250	250
	CNT	22	21	22	24	21	23	23	21	22	17	17	16	14	17	20	18	19	19	23	24	22	22	21	20
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED	430	400	400	400	400	410	420	430	440	440	460	460	460	460	450	440	440	440	440	430	420	420	410	400
	CNT	12	17	14	18	26	23	21	21	22	22	23	22	22	23	23	23	24	24	25	22	23	22	20	16
foE	MED	260	260	260	260	270	270	290	300	310	320	320	330	330	330	330	330	330	320	310	300	280	270	270	260
	CNT	21	22	21	21	22	23	22	21	19	18	15	13	14	14	19	17	20	18	23	23	22	23	22	20
h'E	MED	120	120	115	115	115	110	105	100	100	100	100	100	100	100	100	100	100	105	105	110	110	120	115	120
	CNT	14	15	16	15	12	18	18	18	17	16	14	14	10	11	14	12	15	15	17	21	18	17	16	16
foEs	MED																								
	CNT																								

SWEEP 1.6 MC TO 20.0 MC IN 15 SECONDS.

JULY, 1958

TABLE [illegible]

SALISBURY, SOUTHERN RHODESIA (17.8S, 31.0E) TIME [illegible]

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	31	30	30	29	30	29	32			U 120	U 126				U 125	U 125	U 70						U 60	U 40
	CNT	20	24	24	23	25	24	25			1	2				1	1	3						1	1
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	330	330	320	325	320	330	320			U 340	U 335				U 350	U 320	U 330						U 410	U 450
	CNT	20	24	24	22	25	24	25			1	2				1	1	3						1	1
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED									350	370	U 350		U 340	U 380	370	340	300							
	CNT									24	23	1		1	1	15	26	24							
h'E	MED																								
	CNT																								
foEs	MED	E	E	E	E	E	E	E	G	G	G	G		G	G	G	G	G						E	E
	CNT	23	28	27	28	27	26	29	6	24	25	1		1	1	15	27	26						19 1	205 10

SWEEP 1.0 MC TO 16.0 MC IN 7 SECONDS. JULY, 1958

TABLE [illegible]

VERGELEN I. (49.4S, 70.3E) TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 16	U 22	21	U 20	U 25	U 24	U 27	U 24	55	82	87	118	124	124	126	128	U 126	124	U 83	57	34	28	21	U 21
	CNT	1	5	7	4	6	4	7	9	16	20	15	1	20	26	22	24	17	6	4	9	12	6	11	6
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	U 278	3	285	310	32	315	300	284	25	230	230	235	238	240	235	232	220	215	225	220	230	240	245	U 250
	CNT	4	1	7	11	1	1	3	14	20	25	21	22	24	23	23	26	26	19	19	18	16	8	5	3
	UQ																								
	LQ																								
(M3000)F2	MED	U 340	U 270	U 265	U 262	U 265	U 258	U 300	U 292	315	325	325	310	300	305	305	295	U 315	U 325	U 320	U 345	335	320	U 320	
	CNT	1	4	1	2	3	2	1	4	7	14	11	9	13	15	14	12	6	1	2	2	8	5	4	
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED		U 130	U 115	U 140					152	U 235	U 290	U 322	U 325	U 308	U 300	U 280				U 140	U 115		U 130	
	CNT		1	1	1					5	3	5	2	4	2	3	2				1	1		1	
h'E	MED	E	U 130	U 132	E		F	E	E	U 128	U 130			U 120			U 125				U 140	E			E
	CNT	1	1	2	1		1	1	1	2	1			1			1				1	1			1
foEs	MED	16	16	15	16	26	32	16	16	15	45	32	G	36	35	33	32	27	U 22	15	15	15	15	16	15
	CNT	18	24	21	20	16	13	9	10	15	7	6	4	5	8	9	7	5	4	8	7	12	10	11	16

SWEEP 0.88 MC TO 14.14 MC IN 10 MINUTES. AUTOMATIC OPERATION. JULY, 1958

TABLE 95

MACQUARIE I. (54.5S, 159.0E) TIME 150.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D 39	D 39	U 42	43	40	35	33	48	D 75	D 80	D 78		D 78	D 77	D 76	D 75	57	D 57	D 40	D 40	U 42	40		
	CNT	5	5	8	8	9	11	8	9	7	7	5	4	7	9	10	7	11	9	5	8	7	5	4	1
	UQ	46	48	44	43	48	39	44	52	77	80	80		80	79	80	78	72	59	53	52	55	50		
	LQ	36	38	38	36	38	33	30	42	00	77	78		75	76	75	58	39	41	34	36	37	36		
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	280	240	285	220	220	210	200	200	200	190	200		190	190	200	200	200	205	270	245	220	210		
	CNT	5	5	8	8	9	10	8	9	7	7	5	4	7	9	10	7	11	9	5	8	7	5	4	1
	UQ																								
	LQ																								
(M3000)F2	MED			290	310	310	310	315	325									290			290				
	CNT	3	4	6	6	7	8	8	9	1								6	4	4	5	3	4	3	1
	UQ			295	320	325	330	320	330									320			300				
	LQ			280	295	305	310	305	305									280			280				
foF1	MED																								
	CNT																								
foE	MED								E 150		U 270	310			U 250	E 300	180	E 170							
	CNT								7	7	7	5	4	7	7	10	7	7							
h'E	MED									100	100	100		100	100		100								
	CNT								4	7	6	5	2	6	5	4	6	1							
foEs	MED	38	39	37	37	E 23	E 10	E 10	E 15	E 21	E 27	E 31		E 30	E 28		E 18	E 17	40	42	40	38	46	44	42
	CNT	8	9	10	9	10	12	8	8	7	6	5	3	6	5	4	7	11	12	8	12	11	12	8	8

SWEEP 1.0 MC TO 13.0 MC IN 1 MINUTE 55 SECONDS. JULY, 1958

TABLE 96

TERRE ADELIE (66.7S, 140.0E) TIME 135.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 41	U 43	U 30	U 34	U 30	U 30	U 41	U 27	U 40	U 55	U 70	U 70	U 72	U 68	U 70	U 65	U 64	U 65	U 62	U 55	U 51	U 43	U 43	42
	CNT	11	9	8	10	7	13	11	8	15	6	4	8	11	7	4	15	12	13	10	11	9	9	7	7
	UQ																								
	LQ																								
h'F2	MED													U 300											
	CNT													1											
	UQ																								
	LQ																								
h'F	MED	250	250	272	275	280	278	275	268	270	260	250	250	250	250	250	250	260	250	255	250	250	250	240	245
	CNT	26	24	22	23	17	18	17	14	19	21	20	20	24	23	24	21	24	25	28	29	28	28	28	26
	UQ																								
	LQ																								
(M3000)F2	MED	U 280			U 295					U 270	U 280			U 315	U 275	U 285	U 290	U 260	U 250	U 270	U 280	U 290	U 270	U 280	U 285
	CNT	1			1					1	1			1	1	2	3	1	4	3	1	1	2	2	1
	UQ																								
	LQ																								
foF1	MED													U 310	U 310	U 300									
	CNT													1	1	1									
foE	MED	E	E	E	E	E	E	E	E	E		U 148	U 175	U 198		U 180	U 170	E	E	E	E	E	E	E	E
	CNT	2	3	3	3	1	4	2	6	12	12	10	4	190 8	5	9	12	9	4	2	4	2	2	1	3
h'E	MED	E	E	E	E	E	E	E	E	E	E	U 100			U 110	U 110	E	E	E	E	E	E	E	E	E
	CNT	2	3	3	3	2	6	7	7	12	9	1			1	1	10	10	4	2	4	2	2	1	3
foEs	MED	E	E	18	17	20	24	26	19	23	17	20	24	19	18	20	22	20	E	19	19	19	E	E	E
	CNT	26	28	27	27	27	29	28	27	25	24	20	13	13	16	20	22	22	24	27	27	27	27	27	27

SWEEP 1.2 MC TO 17.0 MC IN 1 MINUTE. JULY, 1958

TABLE 97

JULIUSRUH/RUGEN, GERMANY (54.6N, 13.4E) — TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	66	65	60	60	57	54	65	76	85	90	95	96	97	99	103	100	103	98	98	93	92	83	77	71
	CNT	29	29	29	27	25	29	30	30	30	29	29	25	24	21	23	23	27	25	28	23	27	29	30	29
	UQ																								
	LQ																								
h'F2	MED									U		U			U	U									
	CNT									380		420	460	470	450	440									
	UQ									5	4	7	11	10	9	6	3								
	LQ																								
h'F	MED	E	E	E	E																				
	CNT	380	360	355	340	340	315	280	260	250	240	240	235	240	240	240	240	250	260	270	285	290	290	320	360
	UQ	30	30	30	30	30	30	29	30	30	30	30	30	28	28	28	27	28	28	29	28	27	30	30	30
	LQ																								
(M3000)F2	MED	220	220	220	220	230	245	265	265	260	250	240	240	240	240	240	245	245	250	255	265	255	240	235	225
	CNT	28	28	27	27	25	27	29	30	26	28	24	25	22	20	19	18	21	21	22	18	20	26	28	27
	UQ																								
	LQ																								
foF1	MED												U	U	U										
	CNT									1	4	4	580	580	580										
													5	6	5	3	1								
foE	MEQ		E	E	E	E															U				
	CNT	3	19	20	19	22	155	230	275	320	350	365	375	380	380	365	350	325	290	245	185	2			
							22	26	30	29	29	27	25	25	26	28	26	24	25	20	8				
h'E	MED																								
	CNT																								
foEs	MED		E			E	G	G	G	G					G				G	G		U			
	CNT	4	21	10	10	27	18	20	23	30	38	39	38	38		37	34	33			20	13			
				29	28						28	28	29	22	25	26	25	24	23	20	11	5	1		

SWEEP 0.5 MC TO 20.0 MC IN 20 SECONDS. — APRIL, 1958

TABLE 98

MAW-ON (67.6S, 62.9E) — TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED									U		D	D	U	D	D									
	CNT	3	2	2	2	1	4	2	2	78	3	88	74	88	70	65	4	4	2		1	1	4	2	2
	UQ									5		6	8	5	6	5									
	LQ									82		93	90	88	75	68									
										52		72	68	66	65	45									
h'F2	MED																								
	CNT			1	1		2	1	2	4	3	3	4	2											
	UQ																								
	LQ																								
h'F	MED									U					E	E	E	E							
	CNT	4	3	3	2	1	2	3	2	240	4	240	245	4	260	280	300	300	2	1	2	2	4	4	4
	UQ									5		6	6		6	5	6	6							
	LQ																								
(M3000)F2	MED											U													
	CNT				1		1	2	2	4	3	260	260	3	3	1	1	1	1					1	
	UQ											5	5												
	LQ																								
foF1	MED											U	U												
	CNT			1	2	1	2	3	4	4	4	520	470	2			1								
												6	5												
foE	MED									E		E			E										
	CNT						3	2	2	350		360		3	350										
										5	2	5	4		5	3	3								
h'E	MED																								
	CNT												1												
foEs	MED	E											E					E			Q			E	E
	CNT	10				1	2	4	1	3	1	4	33	3	3	3	30	23	50		45	40	35	21	10
		5	3	2	2								5				7	6	5	4	7	5	7	6	6

SWEEP 1.0 MC TO 25.0 MC IN 25 SECONDS. — FEBRUARY, 1958

TABLE 99

JULIUSRUH/RUGEN, GERMANY (54.6N, 13.4E) — TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	45	44	42	40	38	38	39	37	70	106	133	145	148	150	145	140	133	118	98	78	63	58	49	47
	CNT	23	24	24	22	23	26	23	25	27	26	27	27	28	26	24	27	26	27	27	28	28	28	28	25
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	E	E	E	E	E	E	E	E											E	E	E	E	E	E
	CNT	320	330	310	305	300	280	280	280	255	230	235	225	235	245	235	240	230	220	220	230	255	270	280	305
	UQ	25	25	25	24	26	28	25	27	27	26	27	27	27	26	24	25	27	26	27	27	28	28	29	28
	LQ																								
(M3000)F2	MED	235	235	230	240	245	250	245	250	265	285	285	285	280	280	280	280	280	275	280	275	265	265	250	240
	CNT	21	23	17	14	16	21	19	18	21	19	19	21	22	20	23	22	20	12	16	19	25	25	22	20
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED		E	E	E	E	E				U	U				U	U	U							
	CNT	1	11	15	15	14	7	1		160	220	265	4	1	2	270	240	210	1						
										11	9	6				5	7	7							
h'E	MED																								
	CNT																								
foEs	MED		E	E	E	E	U				G	G	G	G		G	G	G	U	U	U				
	CNT	3	13	16	15	15	10	2		18	21	17	16	15	14	11	16	17	26	26	22	3	2	3	2
							9			18									8	7	5				

SWEEP 0.5 MC TO 20.0 MC IN 20 SECONDS. — JANUARY, 1958

TABLE 100

MACQUARIE I. (54.5S, 159.0E) — TIME 150.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED					56												O							
	CNT		1	3	4	5	4	3	4	3	2	3	3	2	4	4	4	72	4	4	2	1	4	3	1
	UQ					56												5							
	LQ					54												78							
																		68							
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED			2	3	4	3	3	3	2	2	3	3	2	4	4	3	4	3	3	1	1	3	2	1
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED			2	3	3	3	2	2	2	1	3	3	2	4	3	3	2	3	1	1		2	1	
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED				1	4	4	4	4	3	2	3	3	2	4	4	3	4	3	4	2	1			
	CNT																								
h'E	MED				1	4	3	3	3	2	2	3	3	2	4	4	3	4	3	3	1	1			
	CNT																								
foEs	MED		55		44	38																			
	CNT	3	5	4	6	5	3	4	3	2	2	3	3	2	4	4	3	4	4	3	3	4	4	4	3

SWEEP 1.0 MC TO 13.0 MC IN 1 MINUTE 55 SECONDS. — JANUARY, 1958

Fig 1. WASHINGTON, D.C.
38.7°N, 77.1°W NOVEMBER 1961

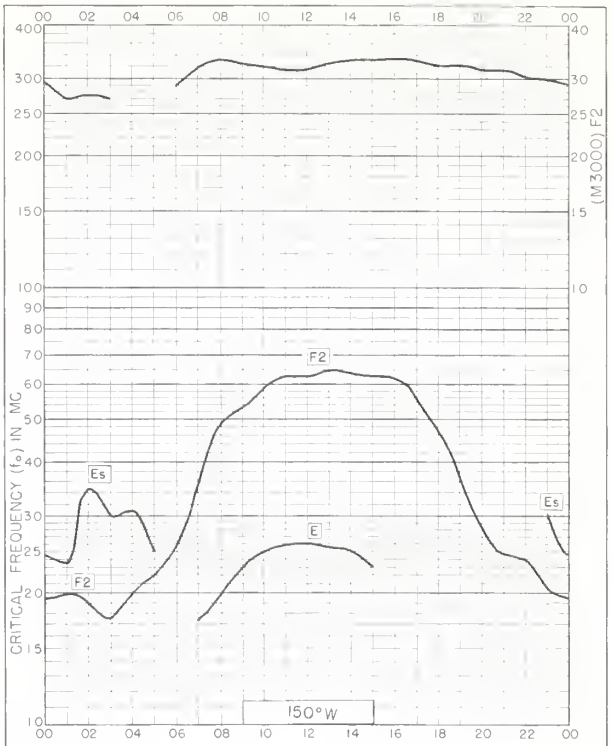

Fig. 2. ANCHORAGE, ALASKA
61.2°N, 149.9°W OCTOBER 1961

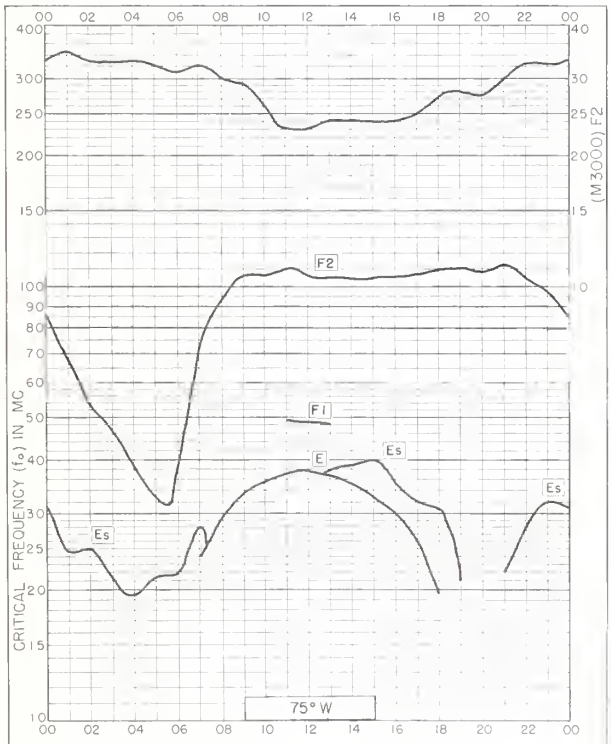

Fig. 3. TALARA, PERU
4.6°S, 81.3°W OCTOBER 1961

Fig 4. HUANCAYO, PERU
12.0°S, 75.3°W OCTOBER 1961

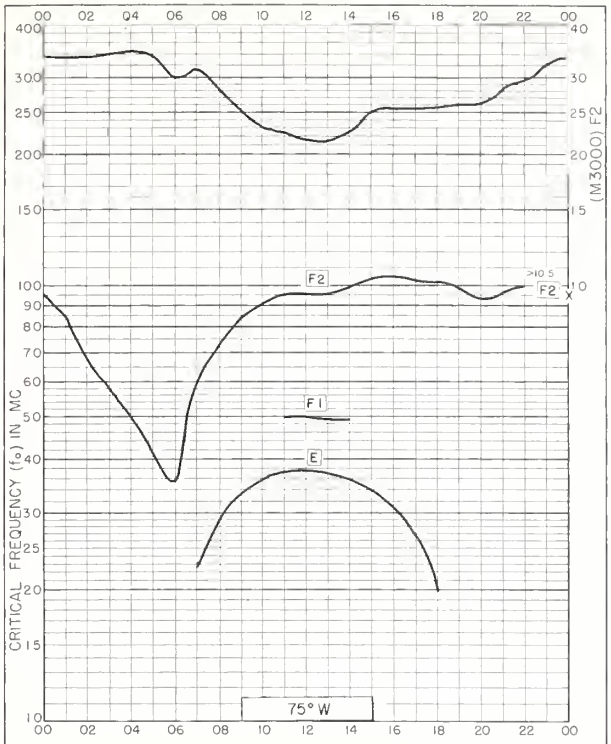

Fig. 5. TALARA, PERU
4.6°S, 81.3°W SEPTEMBER 1961

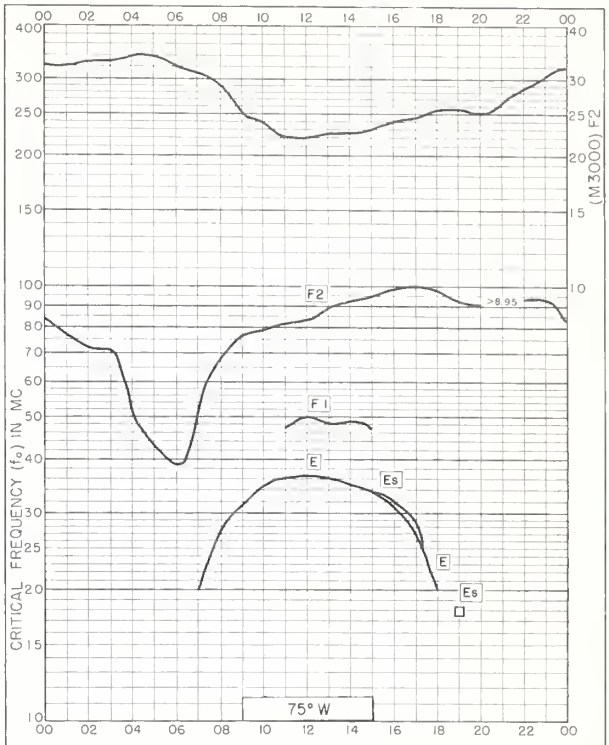

Fig. 6. TALARA, PERU
4.6°S, 81.3°W AUGUST 1961

Fig. 7. HUANCAYO, PERU
12.0°S, 75.3°W AUGUST 1961

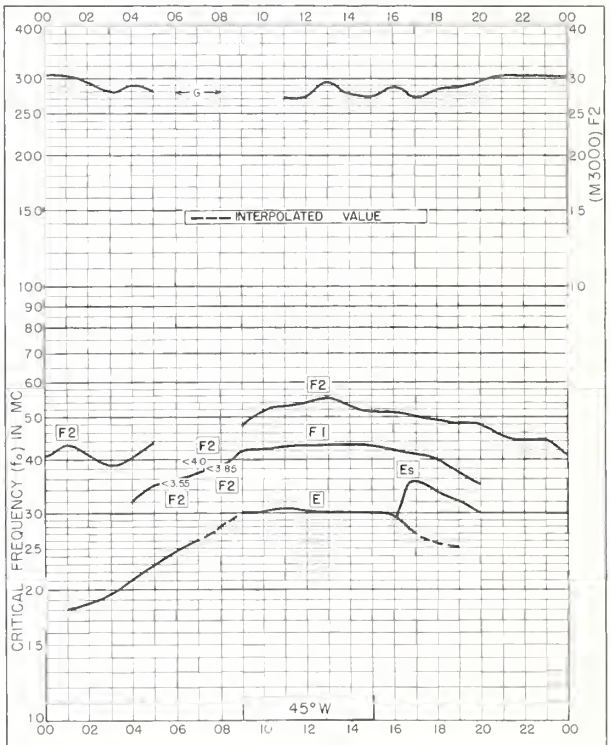

Fig. 8. GODHAVN, GREENLAND
69.3°N, 53.5°W JULY 1961

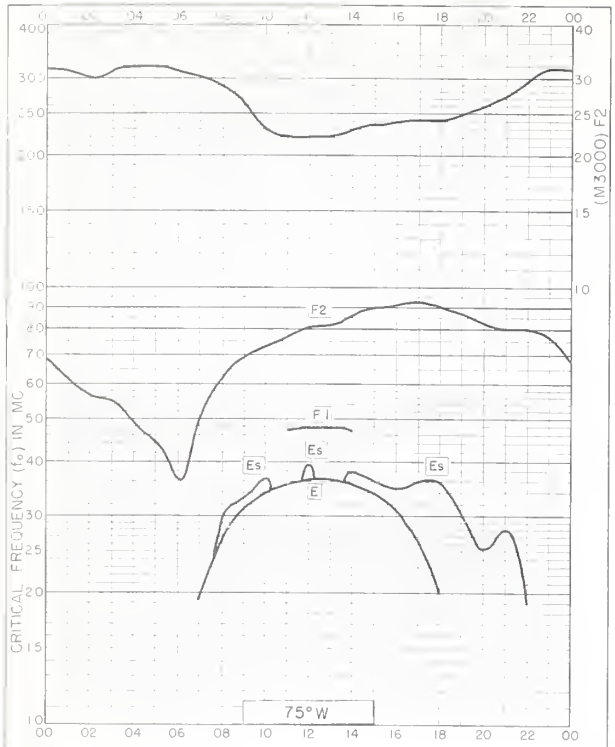

Fig 9. TALARA, PERU
4.6°S, 81.3°W
JULY 1961

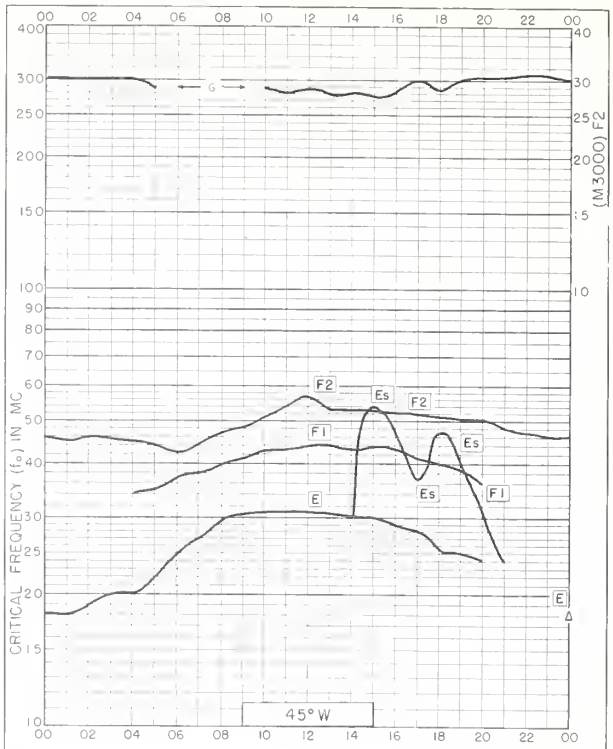

Fig. 10. GODHAVN, GREENLAND
69.3°N, 53.5°W
JUNE 1961

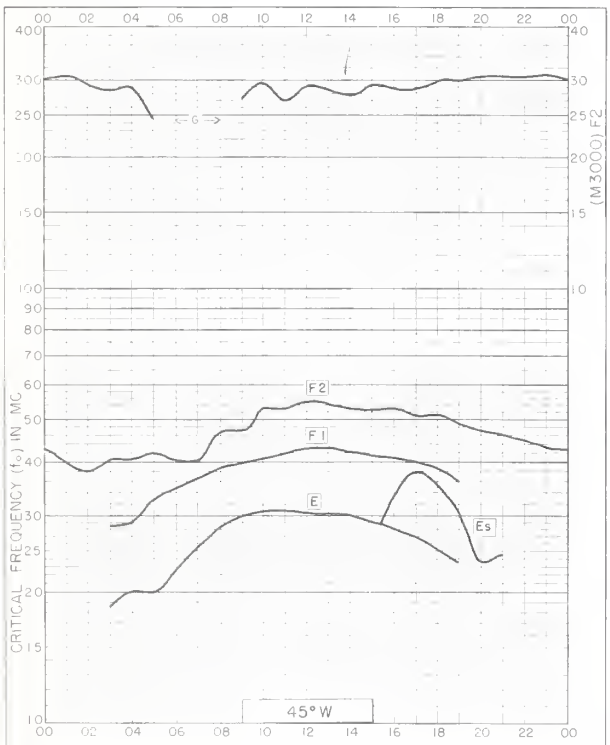

Fig 11 GODHAVN, GREENLAND
69.3°N, 53.5°W
MAY 1961

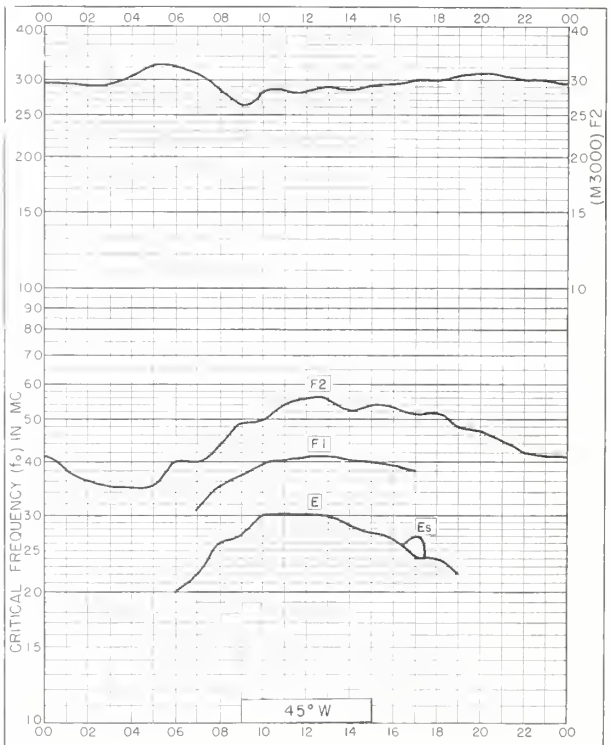

Fig. 12. GODHAVN, GREENLAND
69.3°N, 53.5°W
APRIL 1961

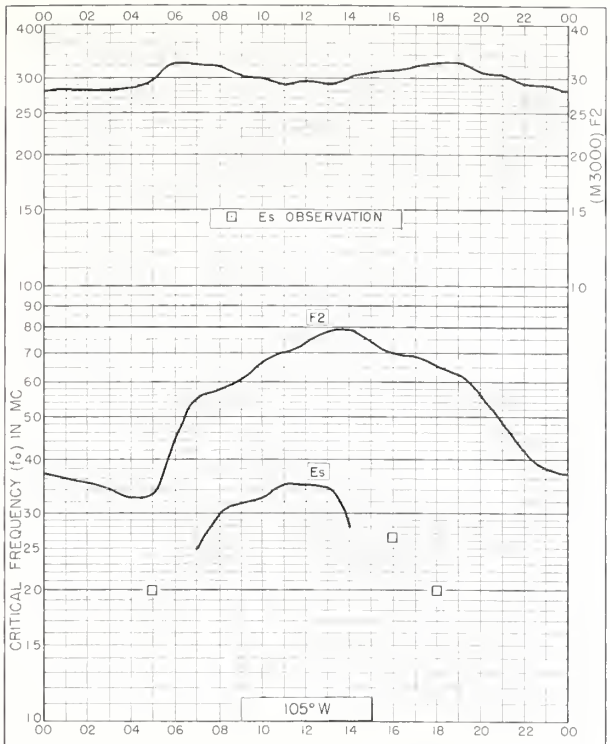

Fig. 13. BOULDER, COLORADO
40.0°N, 105.3°W APRIL 1961

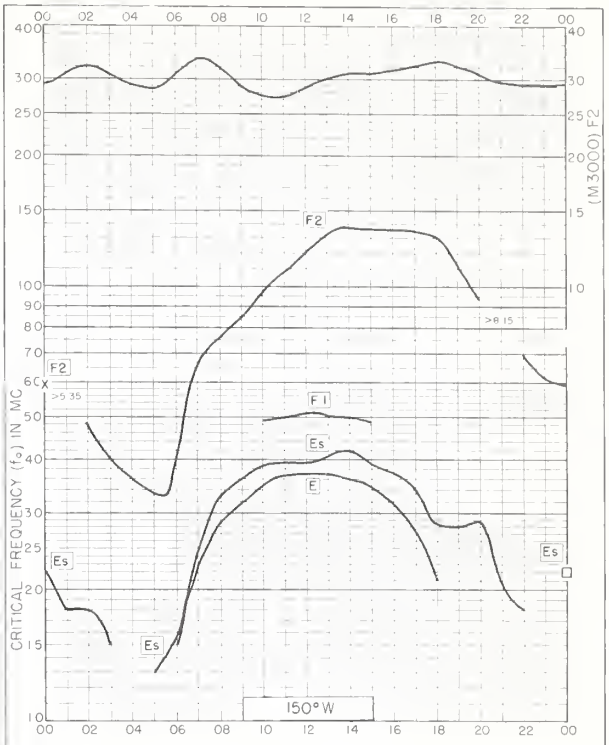

Fig. 14. MAUI, HAWAII
20.8°N, 156.5°W APRIL 1961

Fig. 15. CONCEPCION, CHILE
36.6°S, 73.0°W APRIL 1961

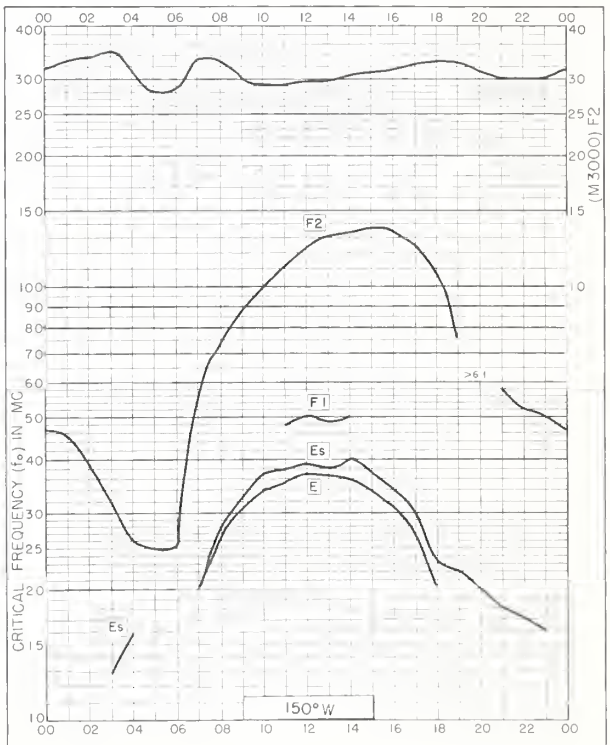

Fig. 16. MAUI, HAWAII
20.8°N, 156.5°W MARCH 1961

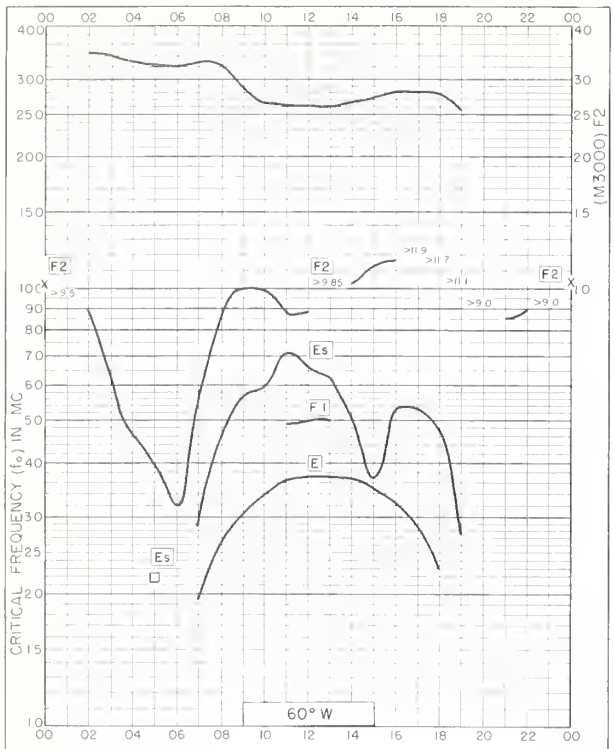

Fig 17 La PAZ, BOLIVIA
16.5°S, 68.1°W MARCH 1961

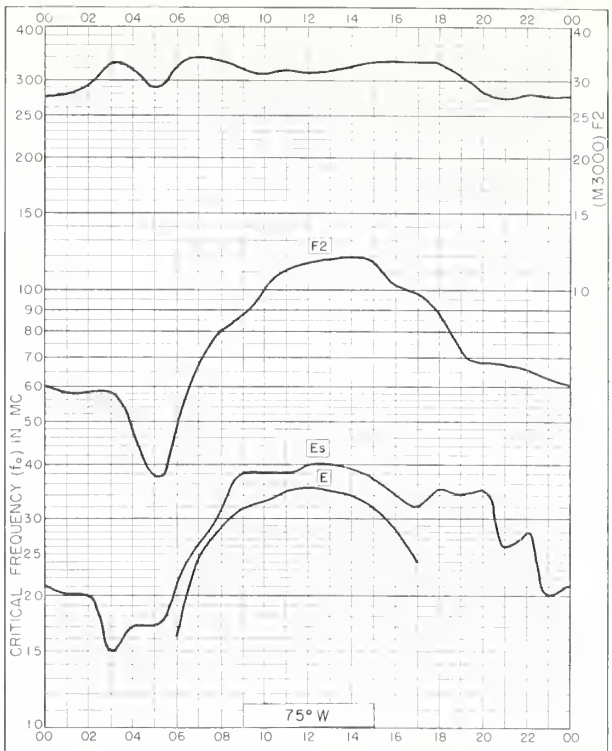

Fig. 18. CONCEPCION, CHILE
36.6°S, 73.0°W MARCH 1961

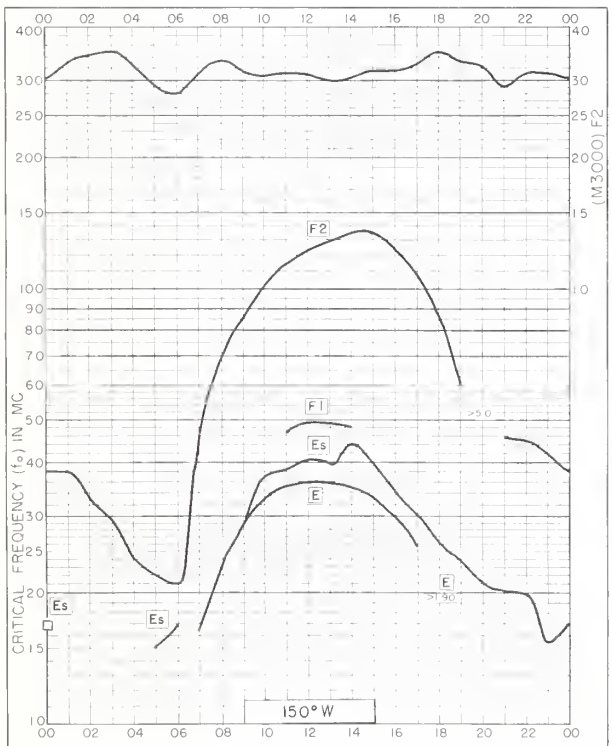

Fig 19. MAUI, HAWAII
20.8°N, 156.5°W FEBRUARY 1961

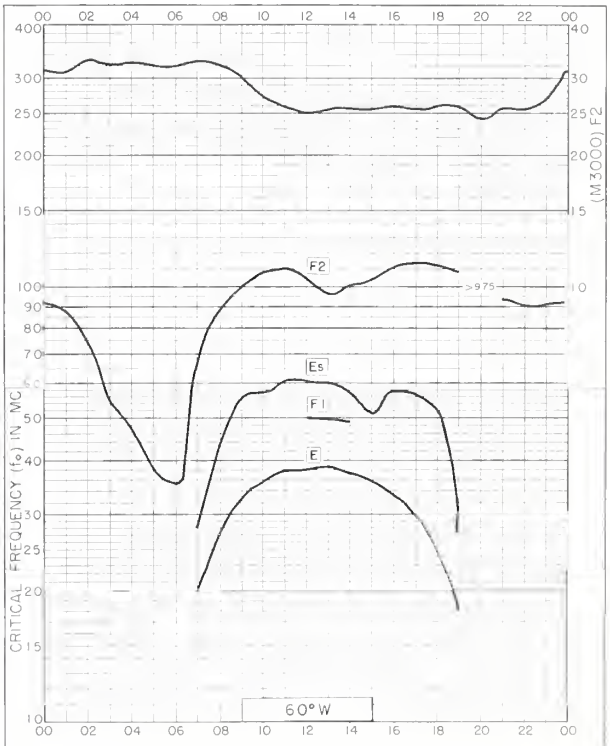

Fig. 20. La PAZ, BOLIVIA
16.5°S, 68.1°W FEBRUARY 1961

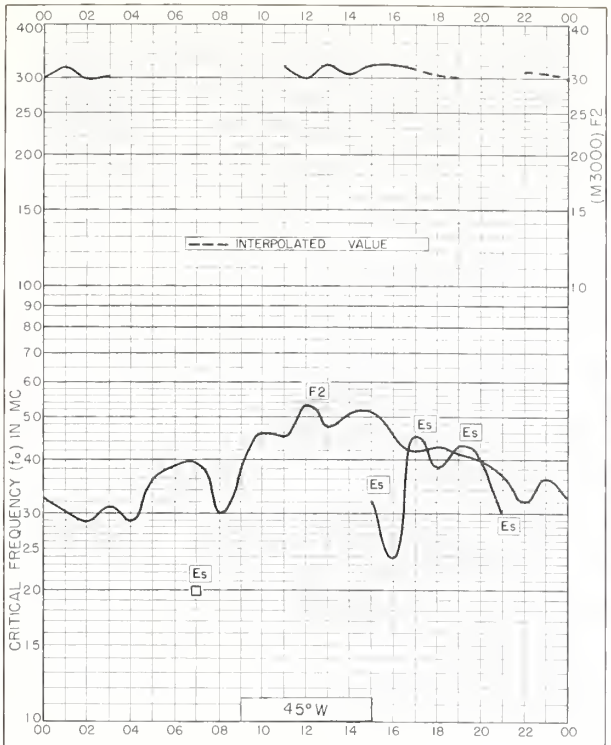

Fig. 21. GODHAVN, GREENLAND
69.3°N, 53.5°W JANUARY 1961

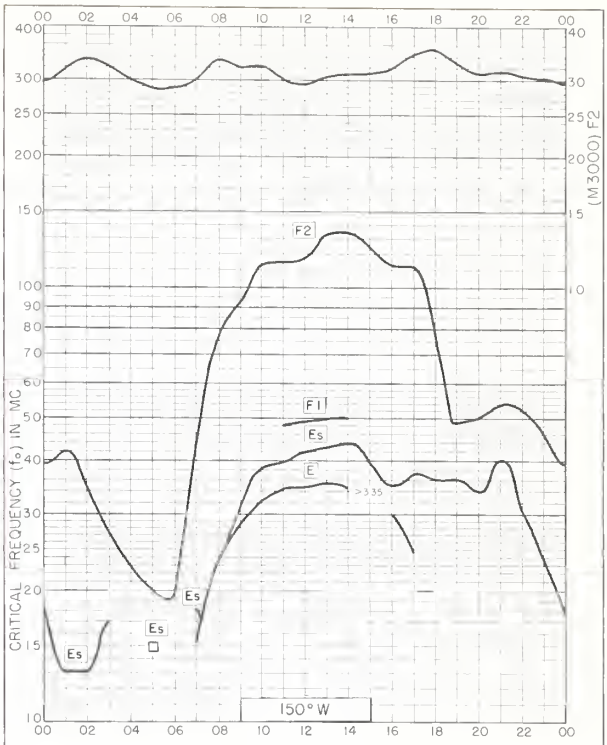

Fig. 22. MAUI, HAWAII
20.8°N, 156.5°W JANUARY 1961

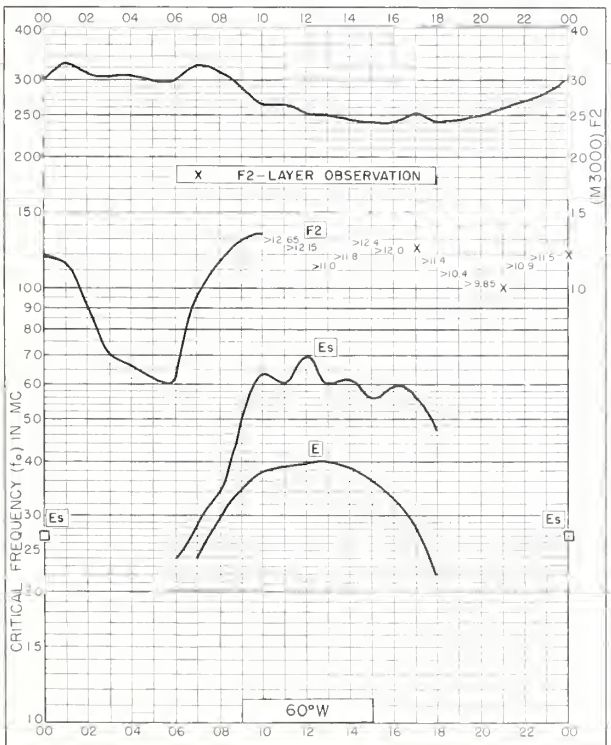

Fig. 23. La PAZ, BOLIVIA
16.5°S, 68.1°W OCTOBER 1960

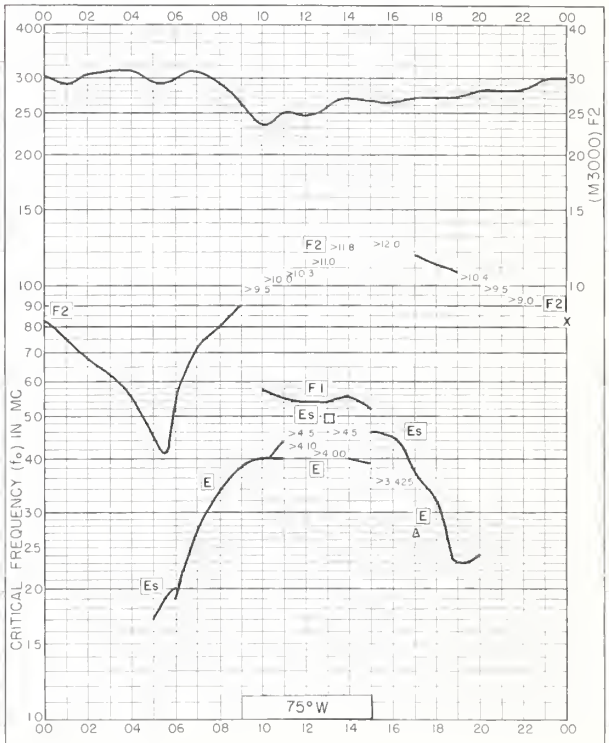

Fig. 24. BOGOTA, COLOMBIA
4.5°N, 74.2°W AUGUST 1960

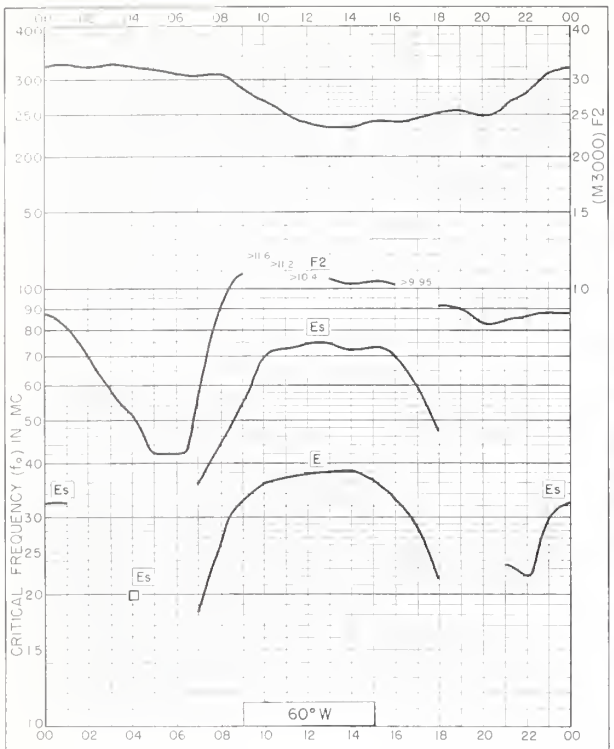

Fig 25. La PAZ, BOLIVIA
16.5°S, 68.1° W AUGUST 1960

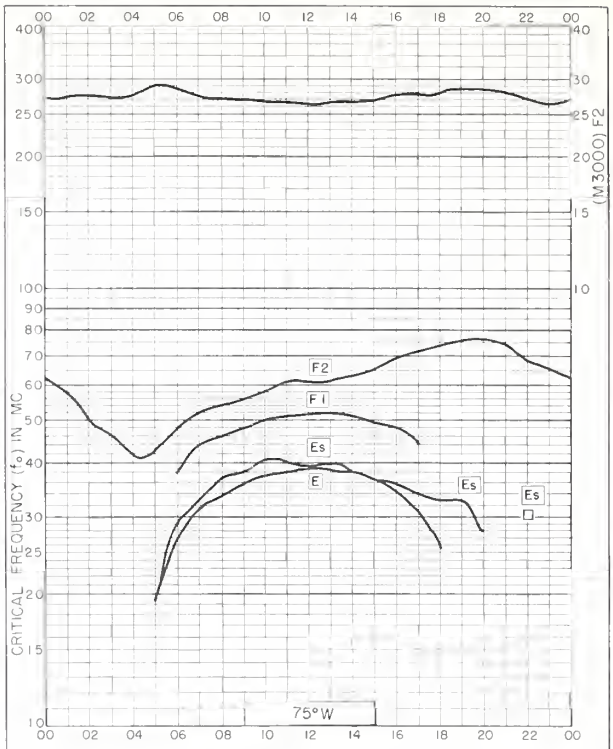

Fig. 26. FT. MONMOUTH, NEW JERSEY
40.4°N, 74.1° W JUNE 1960

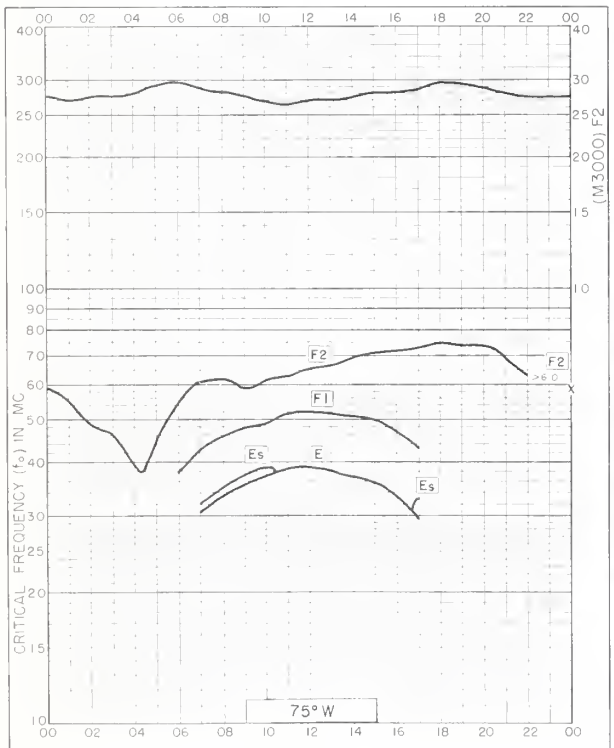

Fig 27 FORT MONMOUTH, NEW JERSEY
40.4°N, 74.1° W MAY 1960

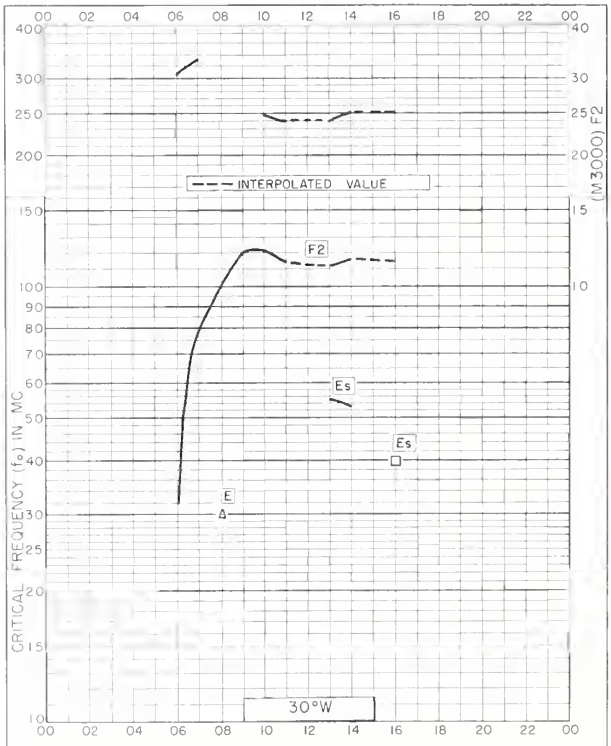

Fig. 28. NATAL, BRAZIL
5.7°S, 35.2°W MAY 1960

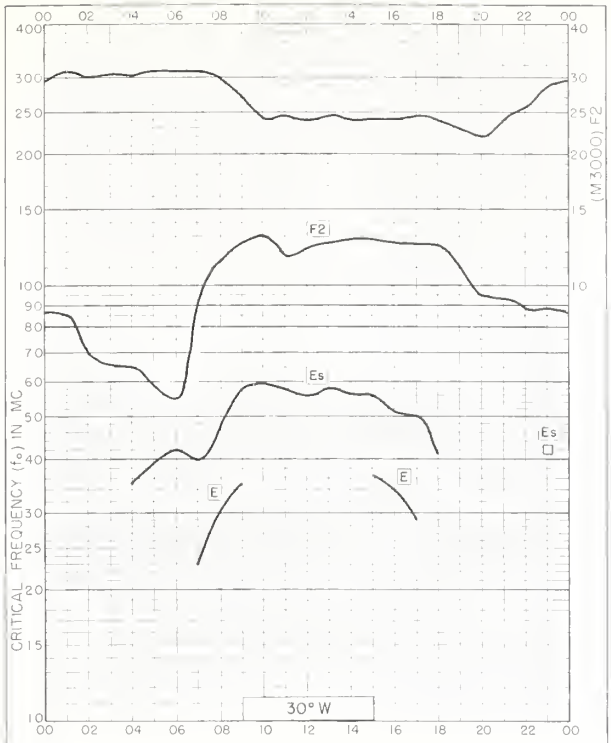

Fig. 29. NATAL, BRAZIL
5.7°S, 35.2°W APRIL 1960

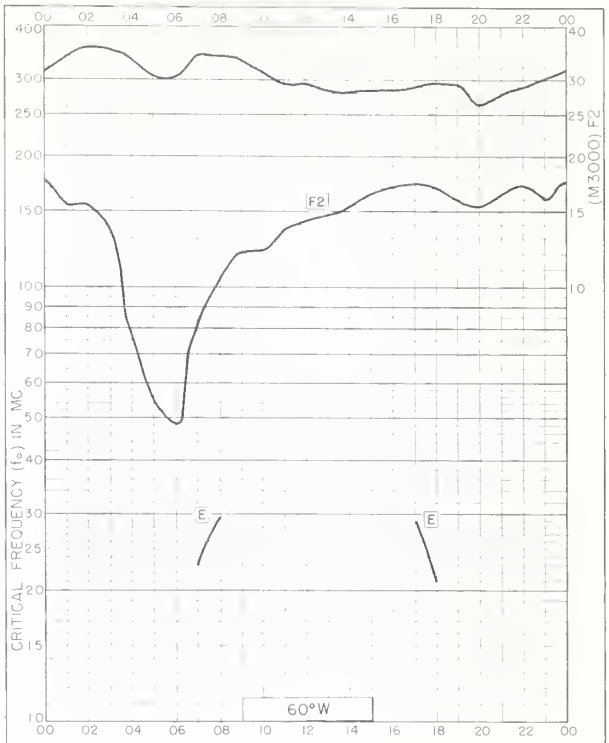

Fig. 30. TUCUMAN, ARGENTINA
26.9°S, 65.4°W MARCH 1960

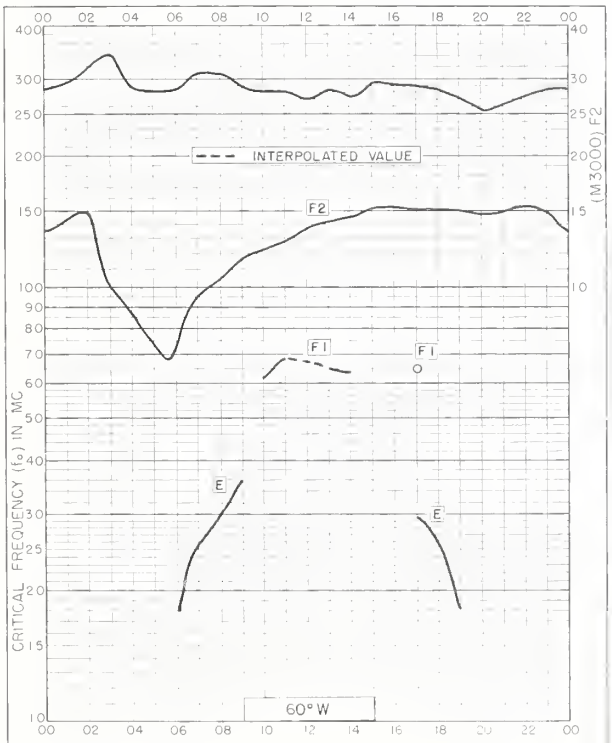

Fig. 31. TUCUMAN, ARGENTINA
26.9°S, 65.4°W FEBRUARY 1960

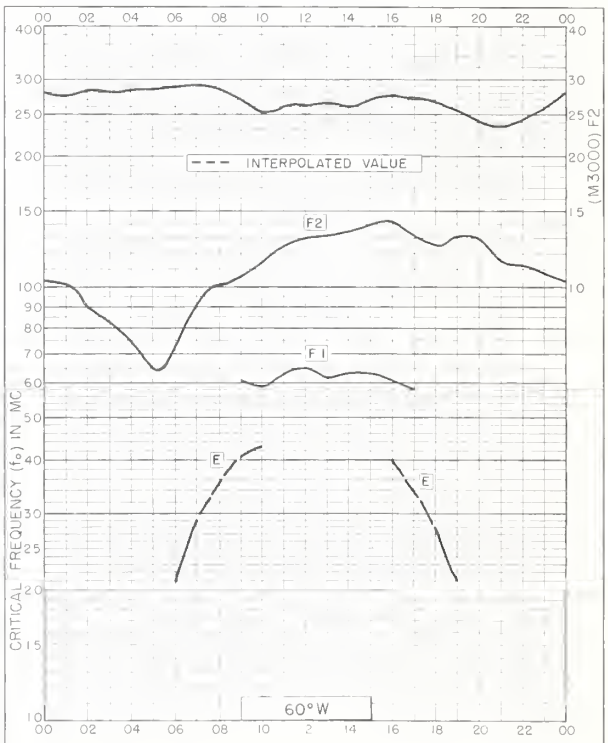

Fig. 32. TUCUMAN, ARGENTINA
26.9°S, 65.4°W JANUARY 1960

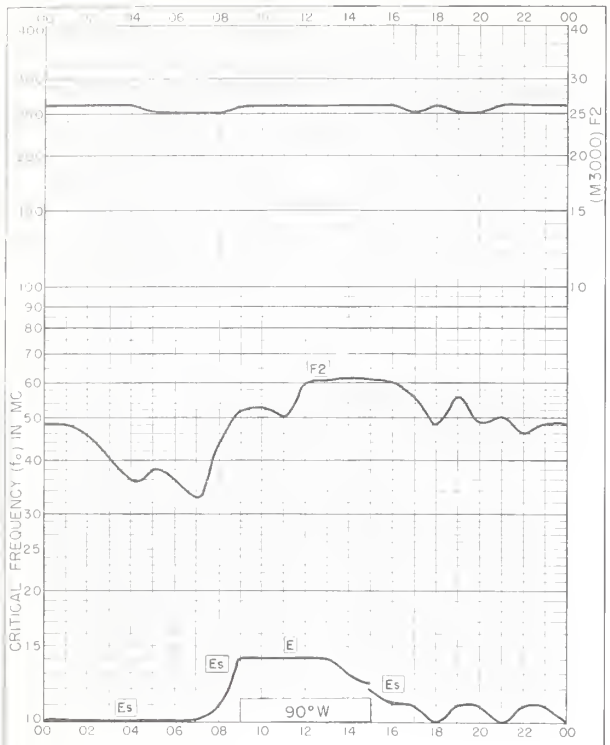

Fig. 33. RESOLUTE BAY, CANADA
74.7°N, 94.9°W NOVEMBER 1959

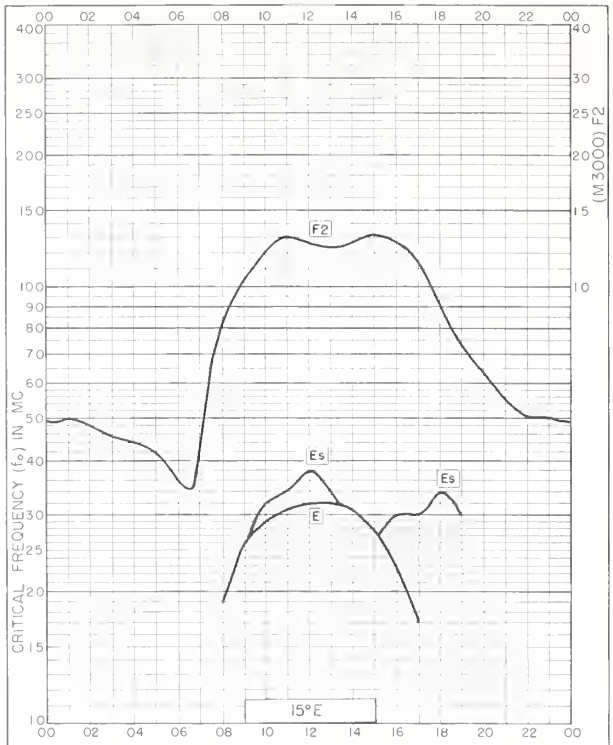

Fig. 34. GENOA (MONTE CAPELLINO), ITALY
44.6°N, 9.0°E NOVEMBER 1959

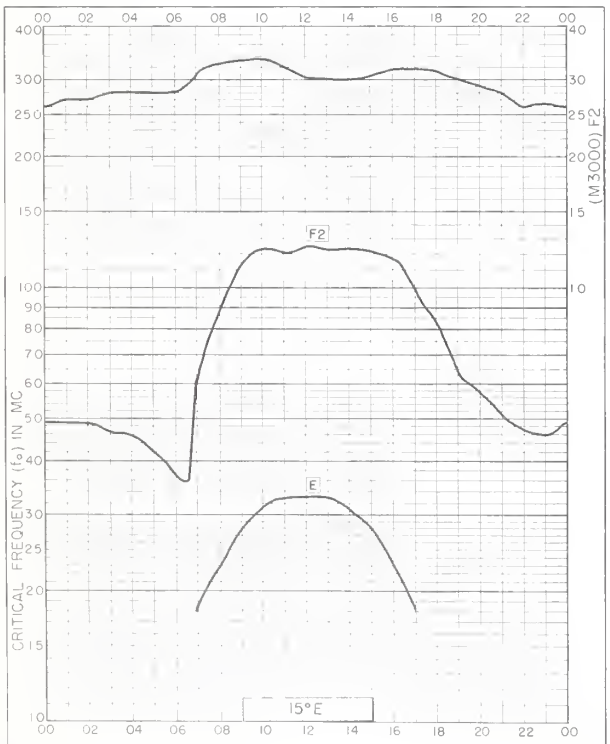

Fig. 35. ROME, ITALY
41.8°N, 12.5°E NOVEMBER 1959

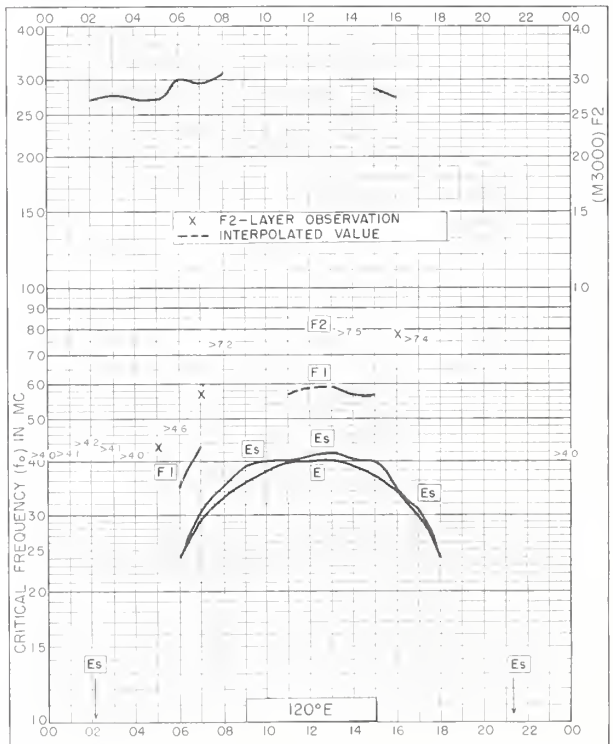

Fig. 36. MUNDARING, W. AUSTRALIA
32.0°S, 116.2°E NOVEMBER 1959

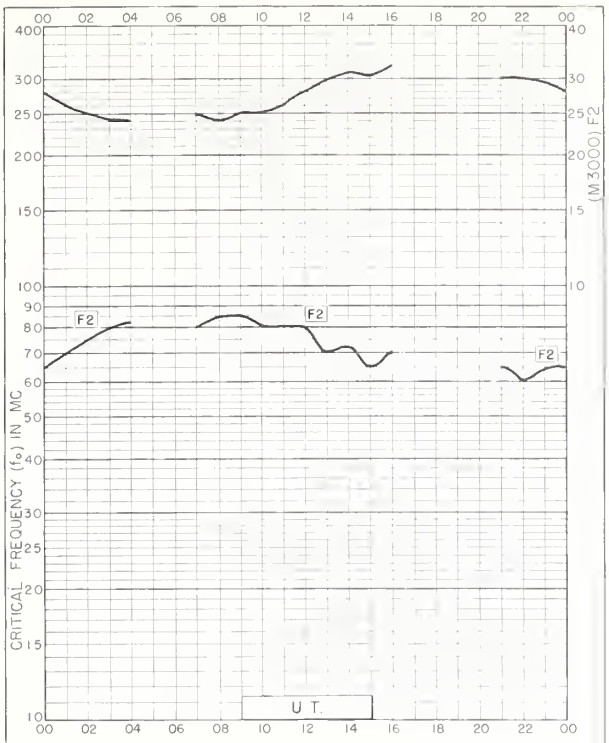

Fig. 37. MAWSON
67.6°S, 62.9°E NOVEMBER 1959

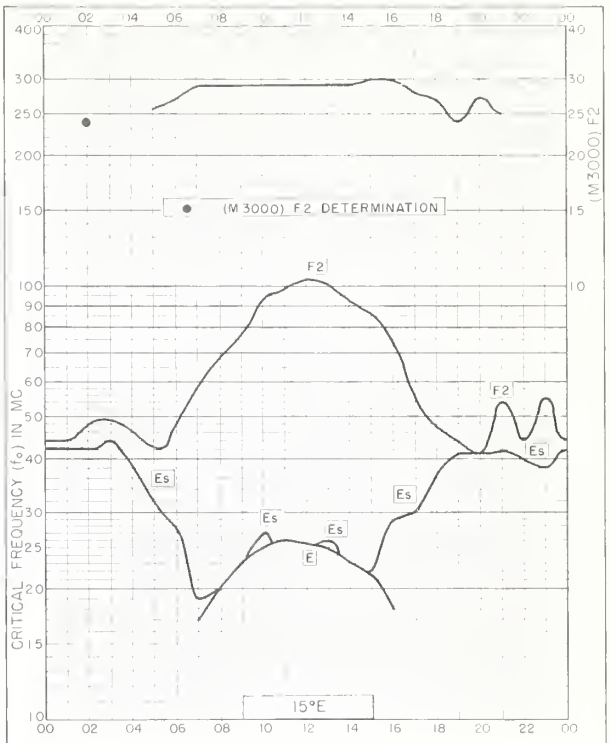

Fig. 38. TROMSO, NORWAY
69.7°N, 19.0°E OCTOBER 1959

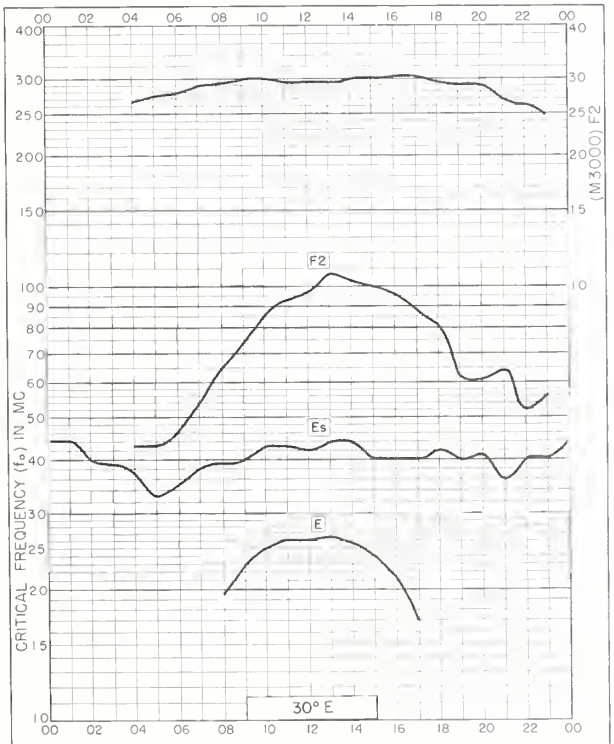

Fig. 39. SODANKYLA, FINLAND
67.4°N, 26.6°E OCTOBER 1959

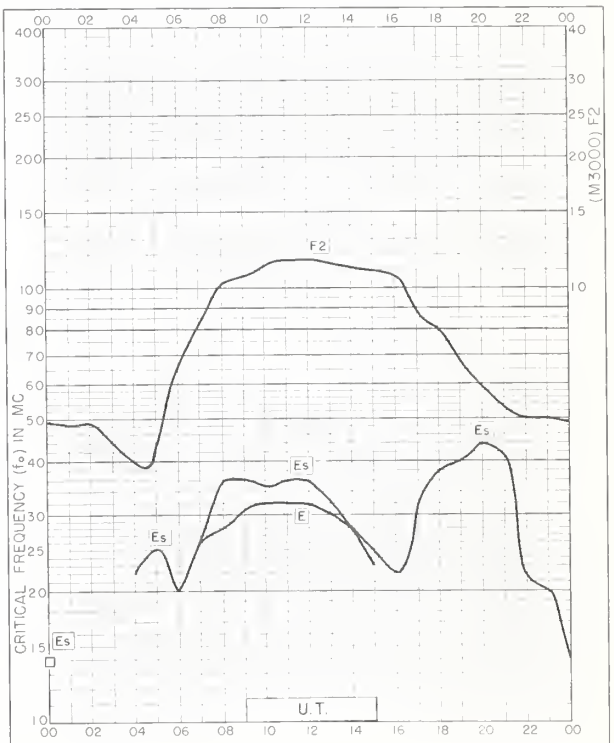

Fig. 40. PRUHONICE, CZECHOSLOVAKIA
50.0°N, 14.6°E OCTOBER 1959

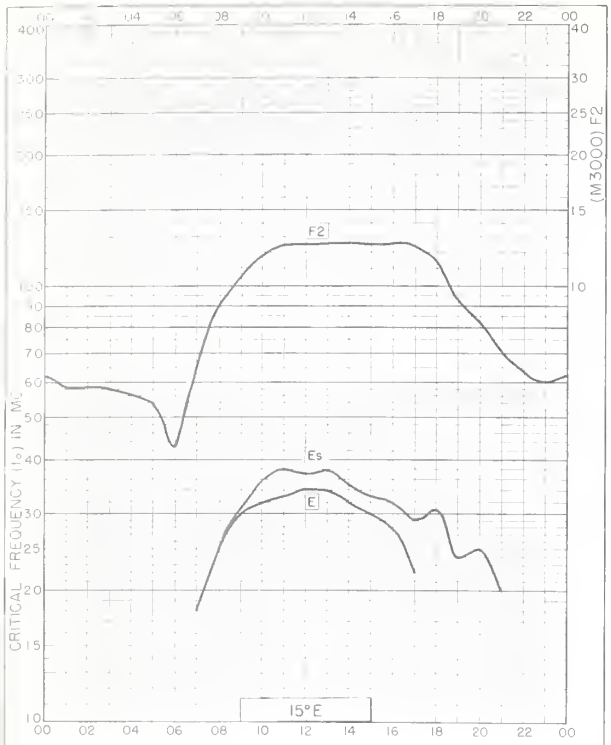

Fig. 41. GENOA (MONTE CAPELLINO), ITALY
44.6°N, 9.0°E OCTOBER 1959

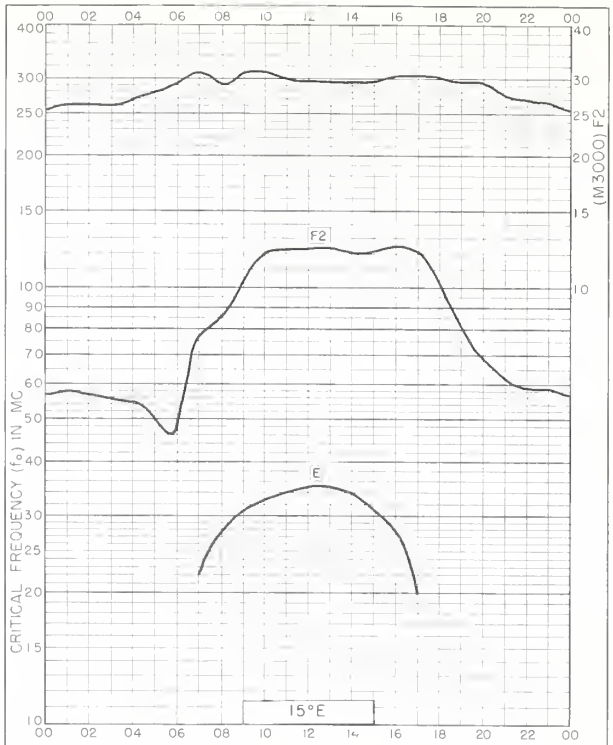

Fig. 42. ROME, ITALY
41.8°N, 12.5°E OCTOBER 1959

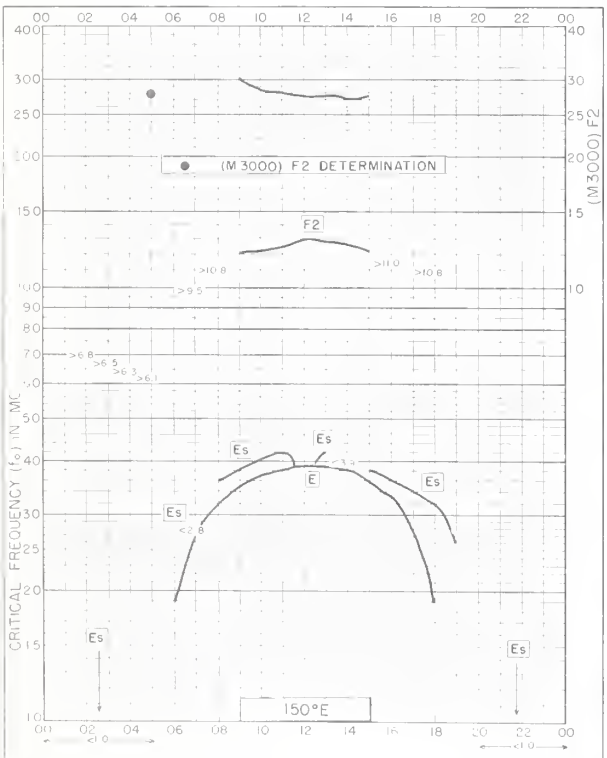

Fig. 43. TOWNSVILLE, AUSTRALIA
19.3°S, 146.7°E OCTOBER 1959

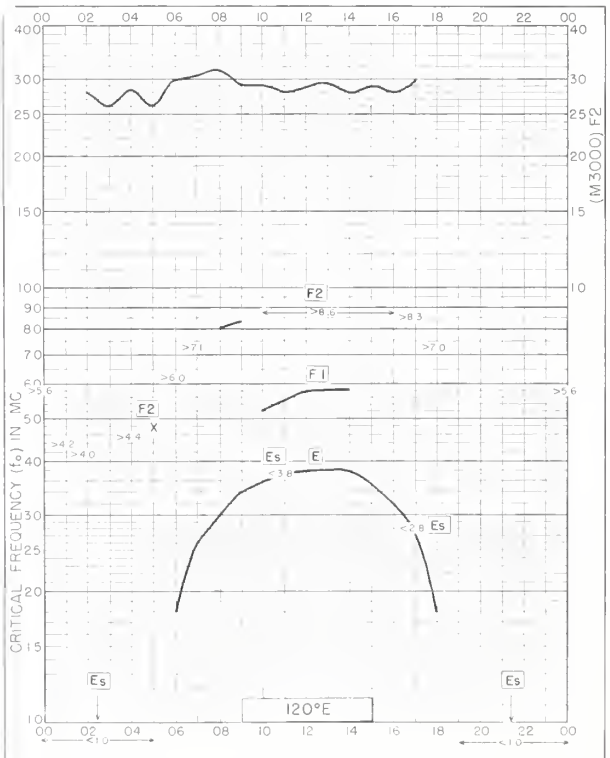

Fig. 44. MUNDARING, W. AUSTRALIA
32.0°S, 116.2°E OCTOBER 1959

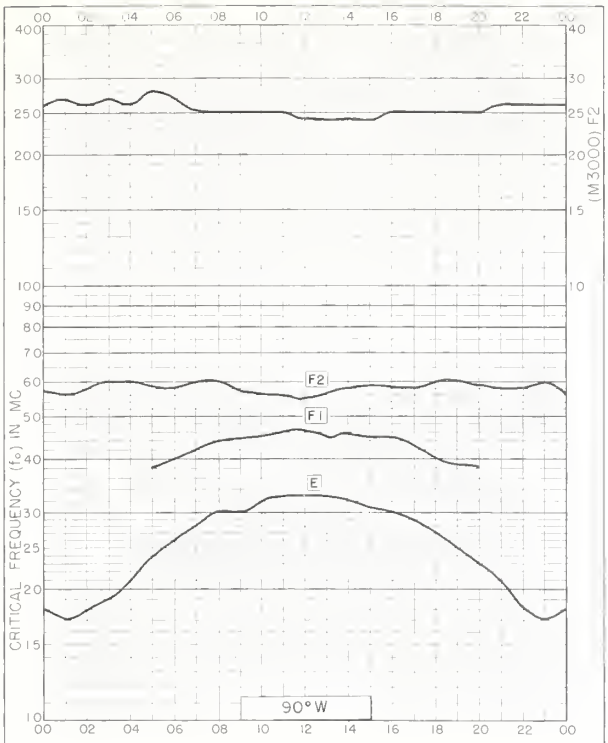

Fig. 45. RESOLUTE BAY, CANADA
74.7°N, 94.9°W AUGUST 1959

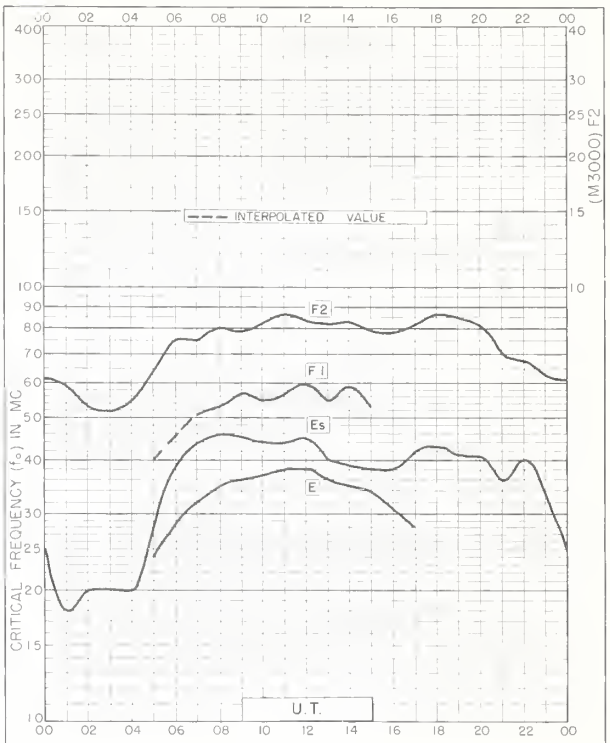

Fig. 46. PRUHONICE, CZECHOSLOVAKIA
50.0°N, 14.6°E AUGUST 1959

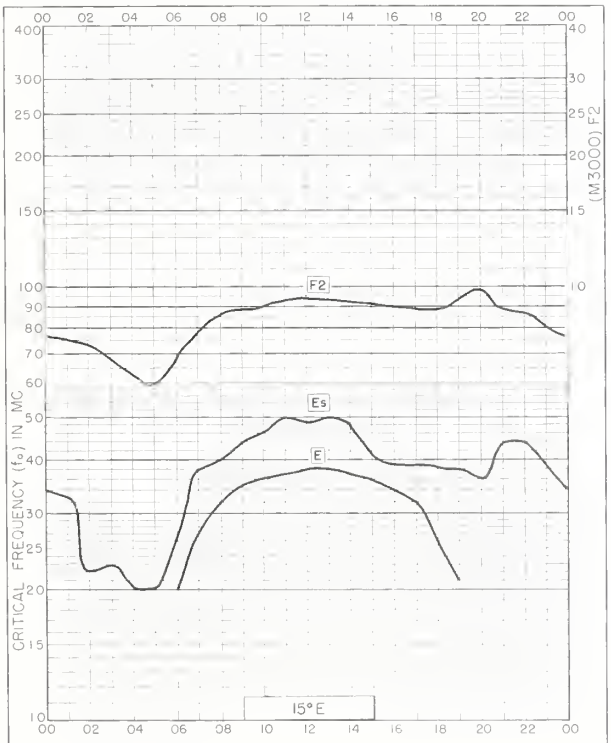

Fig 47. GENOA (MONTE CAPELLINO), ITALY
44.6°N, 9.0°E AUGUST 1959

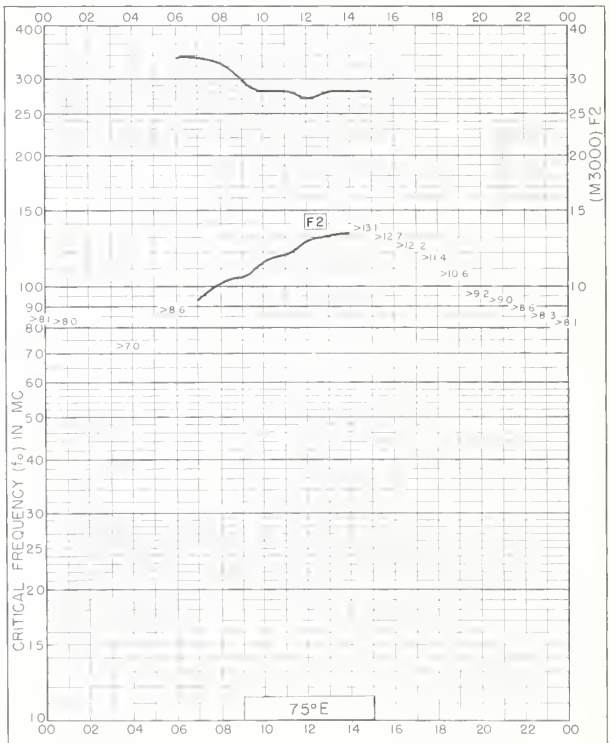

Fig. 48. DELHI, INDIA
28.6°N, 77.2°E AUGUST 1959

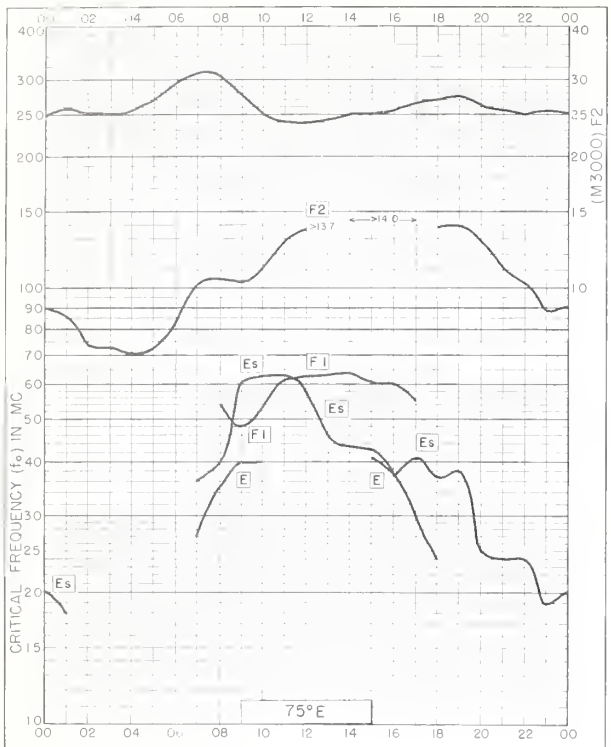

Fig. 49. AHMEDABAD, INDIA
23.0°N, 72.6°E AUGUST 1959

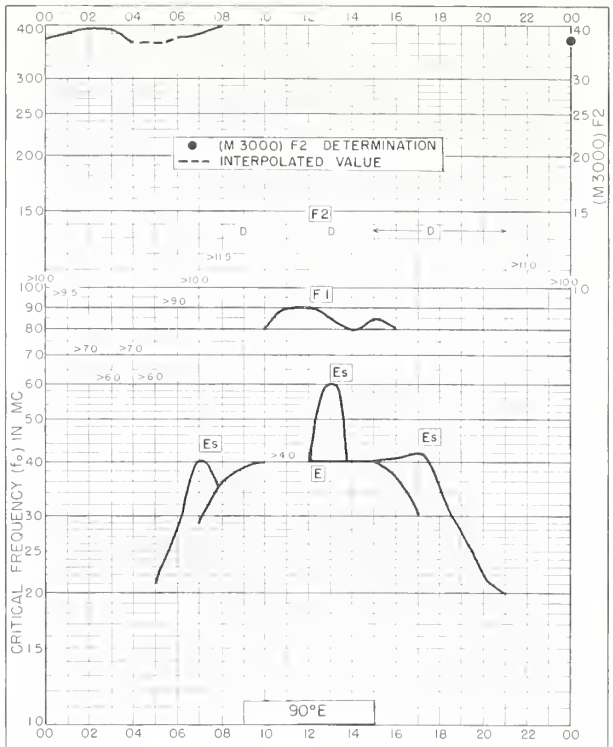

Fig. 50. CALCUTTA, INDIA
23.0°N, 88.6°E AUGUST 1959

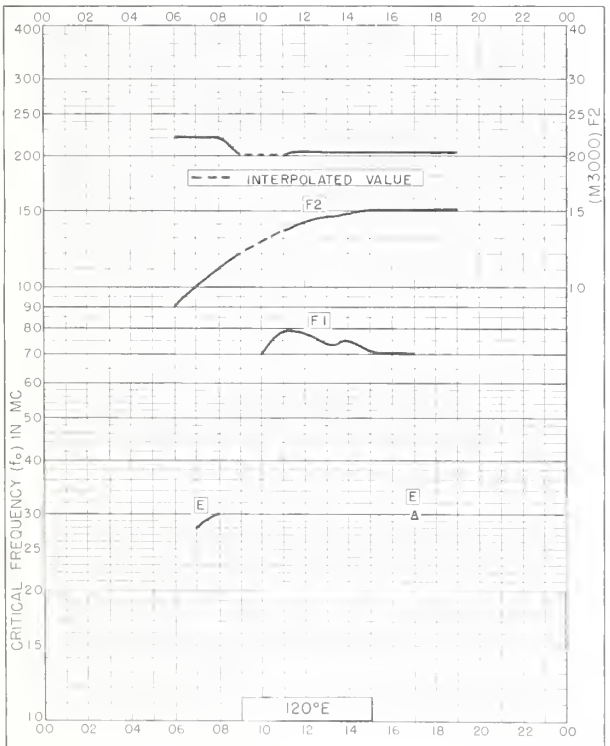

Fig. 51. MACAU
22.2°N, 113.6°E AUGUST 1959

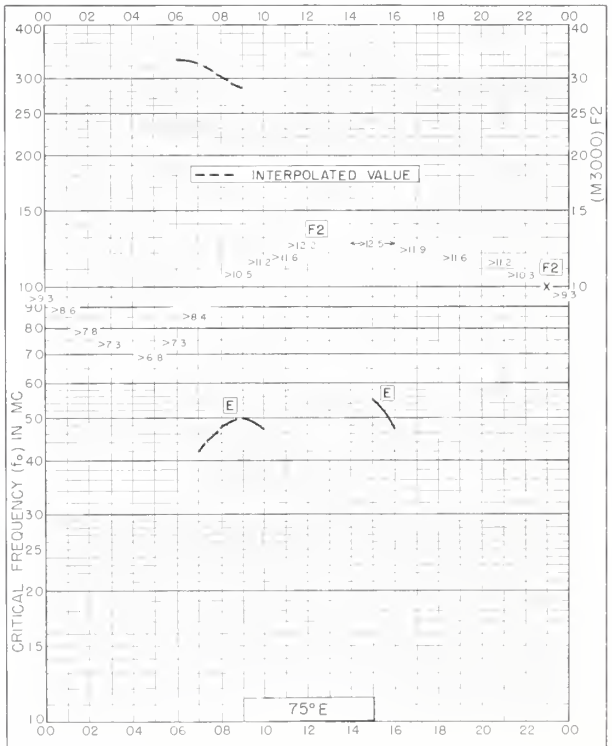

Fig. 52. BOMBAY, INDIA
19.0°N, 72.8°E AUGUST 1959

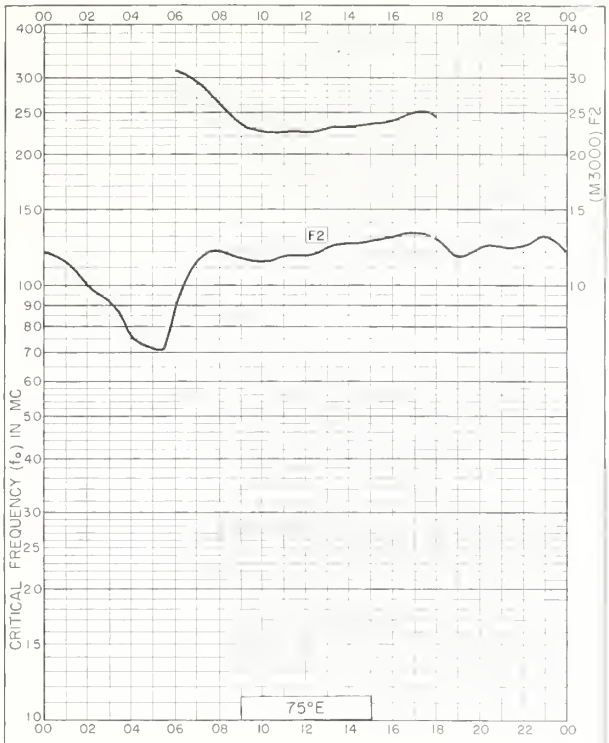

Fig. 53. MADRAS, INDIA
13.1°N, 80.3°E AUGUST 1959

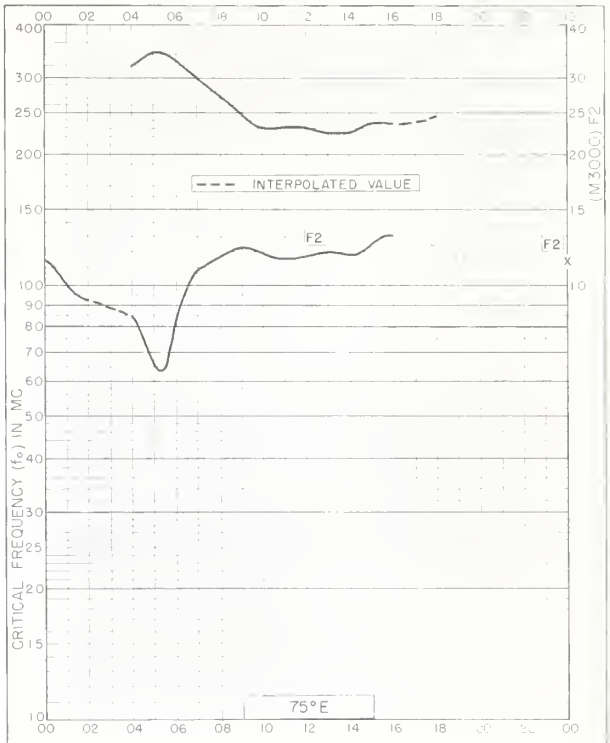

Fig. 54 TIRUCHY, INDIA
10.8°N, 78.7°E AUGUST 1959

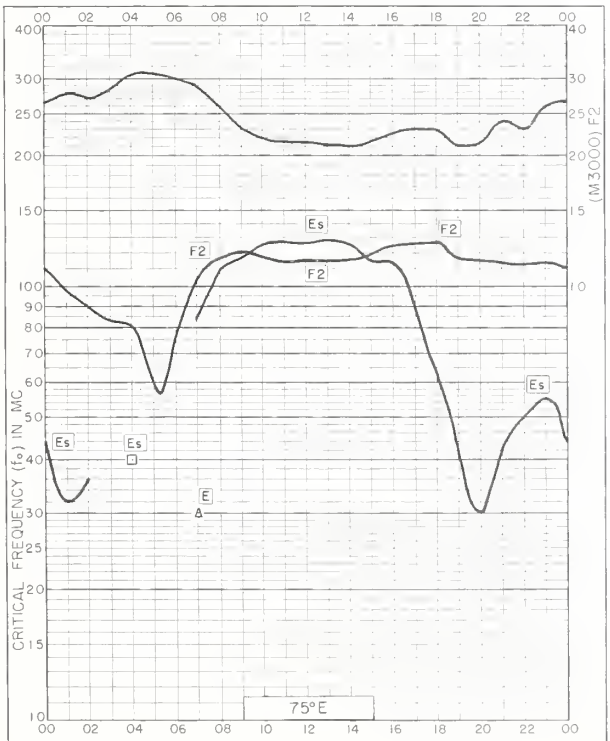

Fig. 55. KODAIKANAL, INDIA
10.2°N, 77.5°E AUGUST 1959

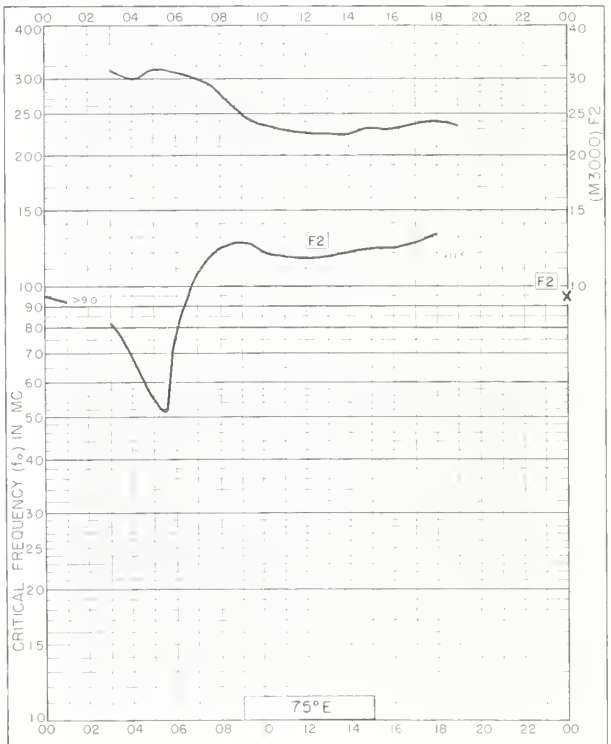

Fig. 56. TRIVANDRUM, INDIA
8.5°N, 77.0°E AUGUST 1959

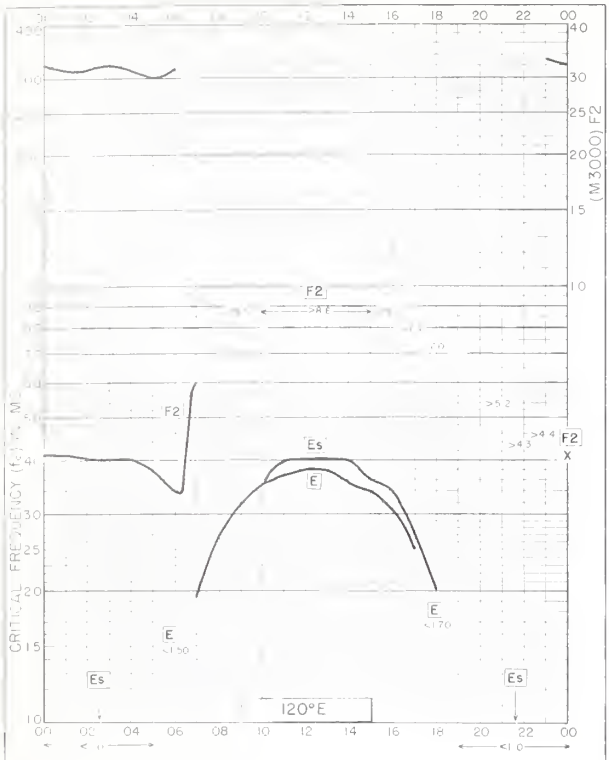

Fig. 57. MUNDARING, W. AUSTRALIA
32.0°S, 116.2°E AUGUST 1959

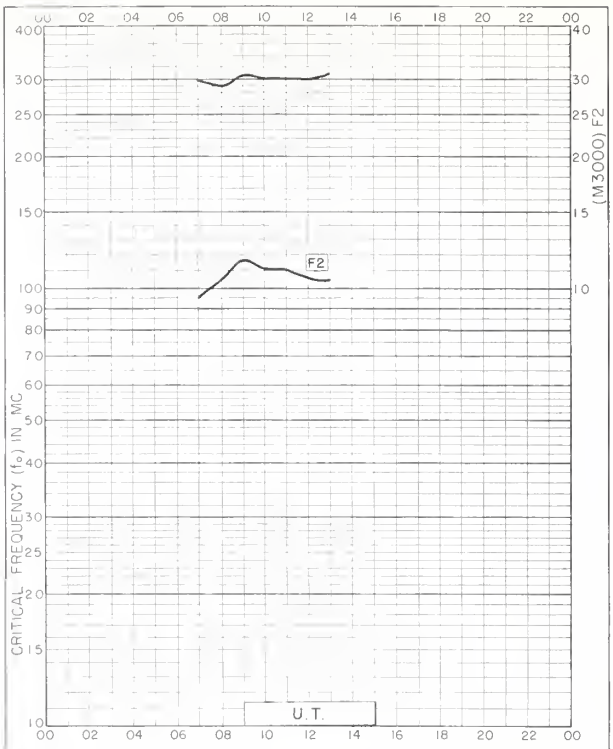

Fig. 58. MAWSON
67.6°S, 62.9°E AUGUST 1959

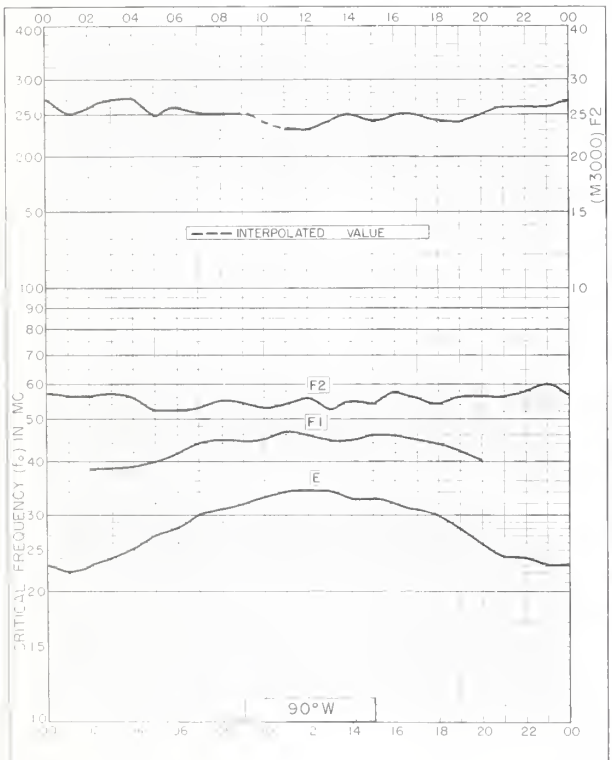

Fig. 59. RESOLUTE BAY, CANADA
74.7°N, 94.9°W JULY 1959

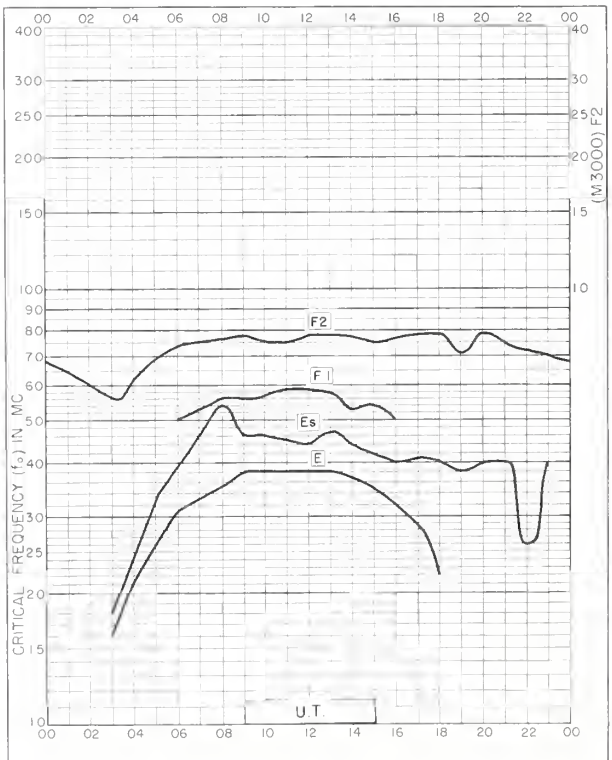

Fig. 60. PRUHONICE, CZECHOSLOVAKIA
50.0°N, 14.6°E JULY 1959

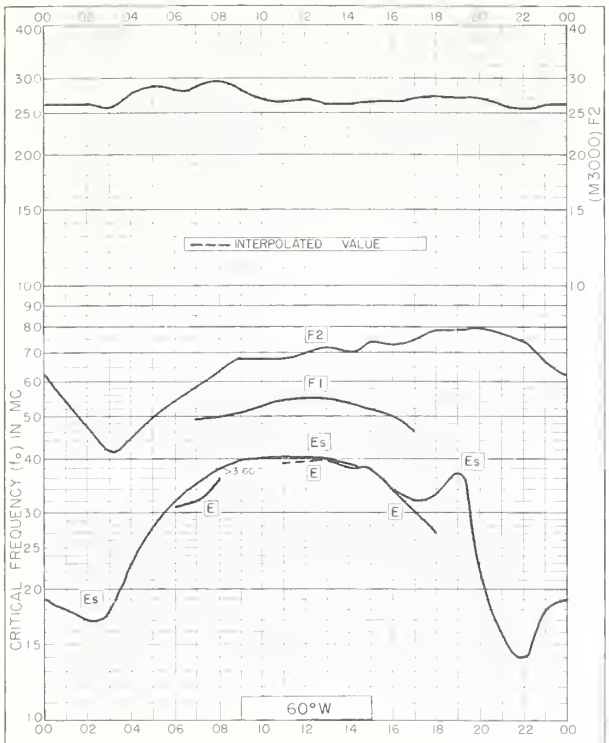

Fig. 61. ST. JOHN'S, NEWFOUNDLAND
47.6°N, 52.7°W JULY 1959

Fig. 62. GENOA (MONTE CAPELLINO), ITALY
44.6°N, 9.0°E JULY 1959

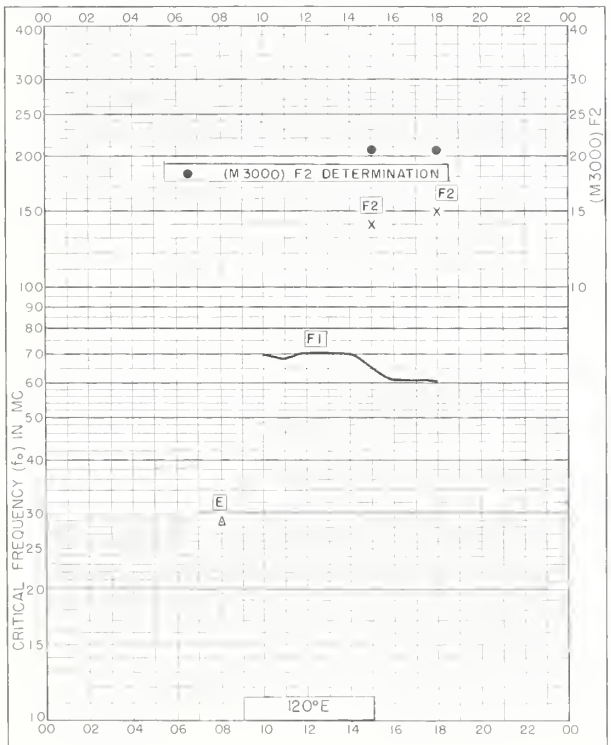

Fig. 63. MACAU
22.2°N, 113.6°E JULY 1959

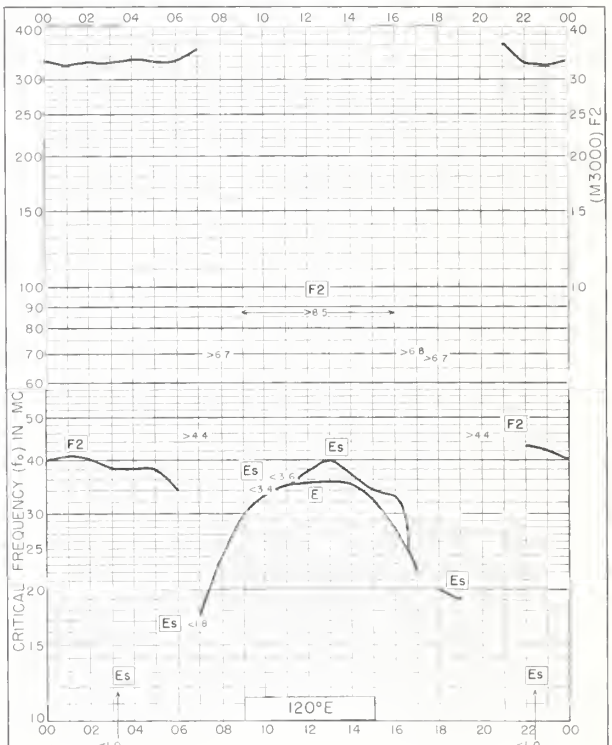

Fig 64. MUNDARING, W AUSTRALIA
32.0°S, 116.2°E JULY 1959

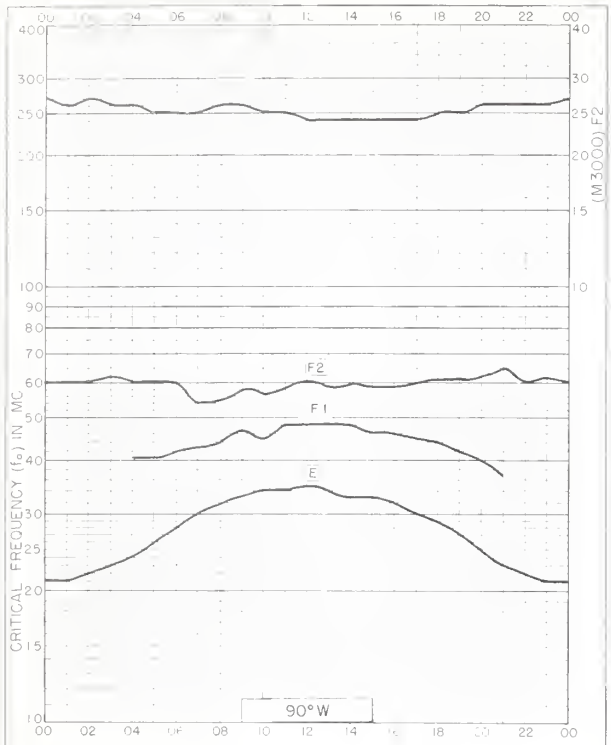

Fig. 65. RESOLUTE BAY, CANADA
74.7°N, 94.9°W MAY 1959

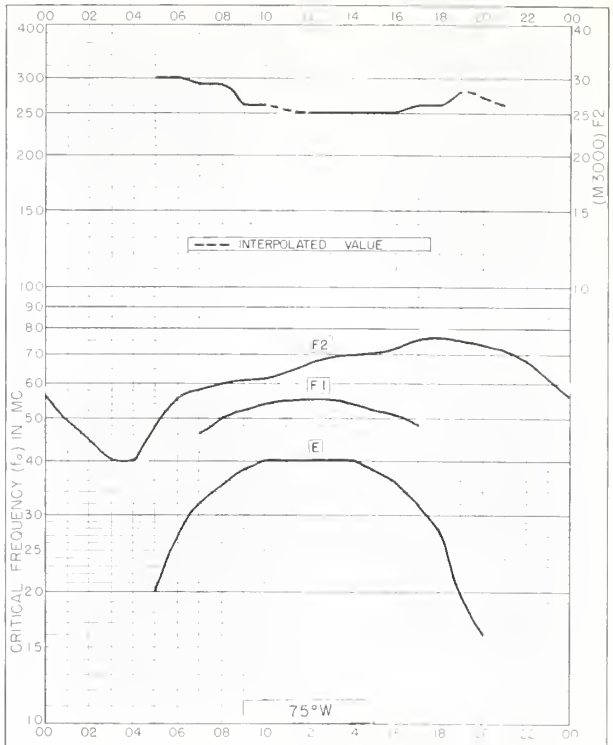

Fig. 66. OTTAWA, CANADA
45.4°N, 75.9°W MAY 1959

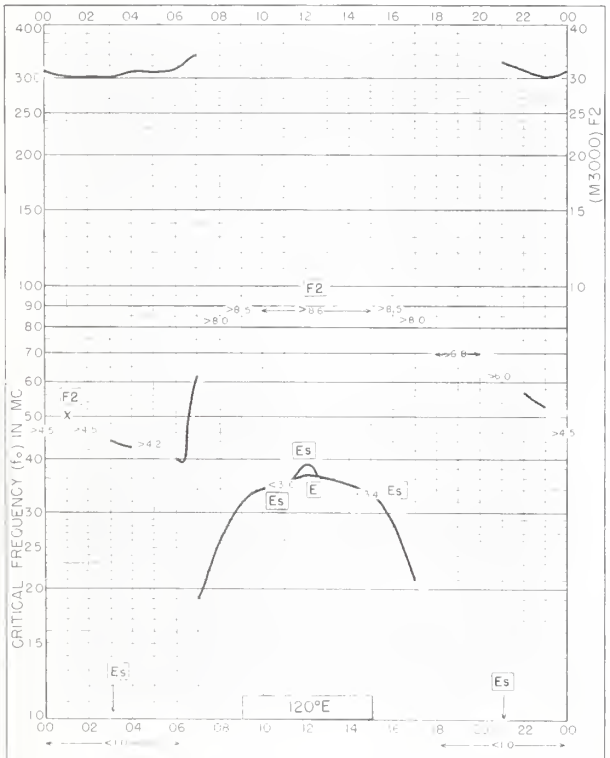

Fig 67. MUNDARING, W. AUSTRALIA
32.0°S, 116.2°E MAY 1959

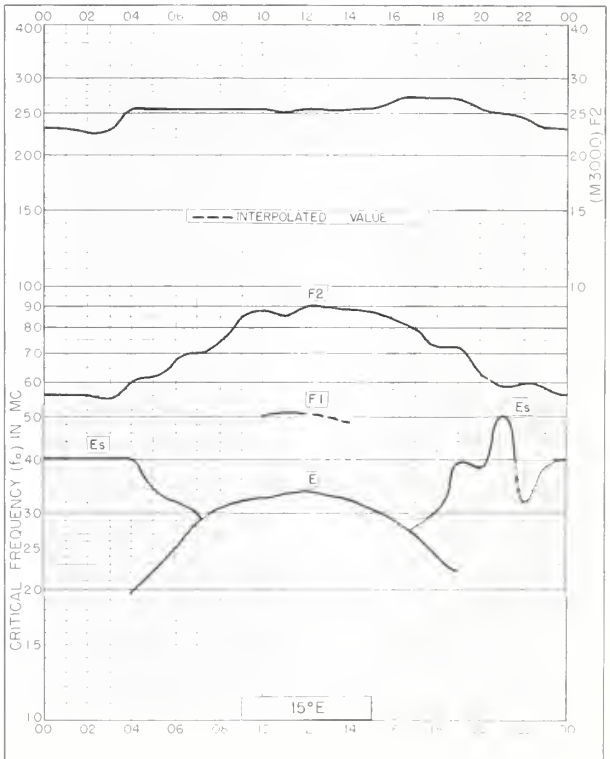

Fig 68. TROMSO, NORWAY
69.7°N, 19.0°E APRIL 1959

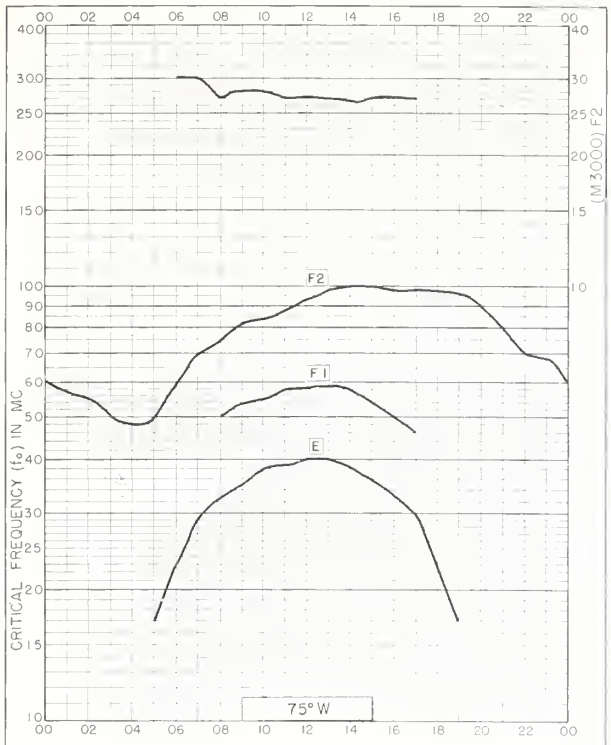

Fig. 69. OTTAWA, CANADA
45.4°N, 75.9°W APRIL 1959

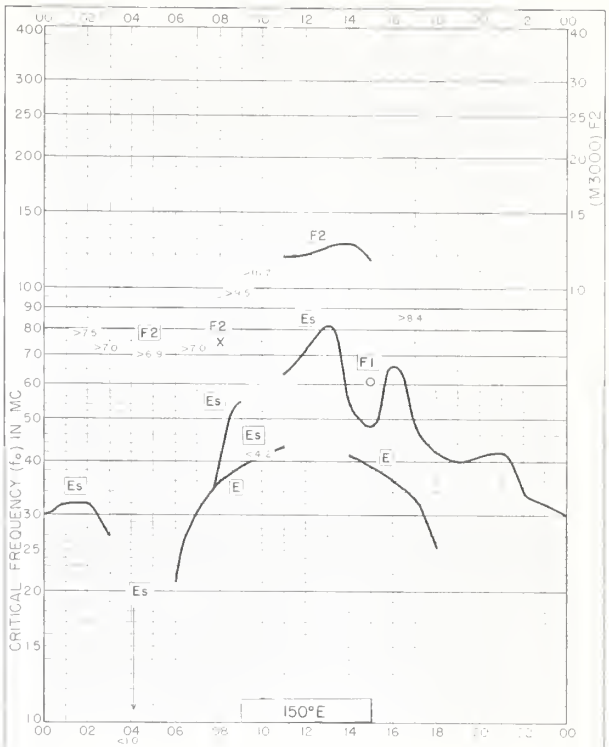

Fig. 70. TOWNSVILLE, AUSTRALIA
19.3°S, 146.7°E JANUARY 1959

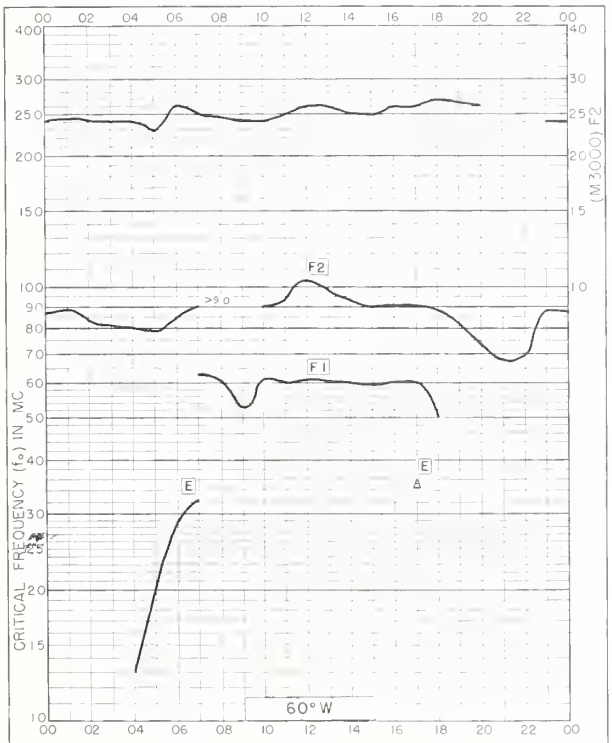

Fig. 71. TRELEW, ARGENTINA
43.2°S, 65.3°W JANUARY 1959

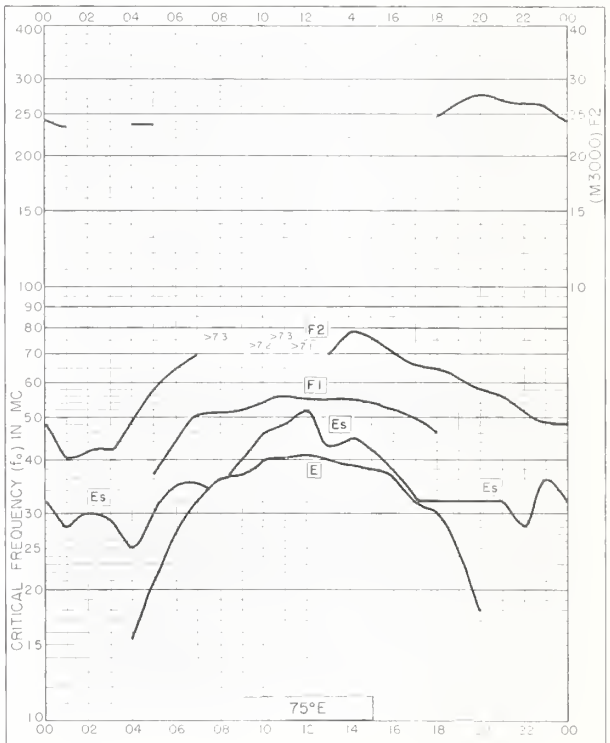

Fig. 72. KERGUELEN I.
49.4°S, 70.3°E DECEMBER 1958

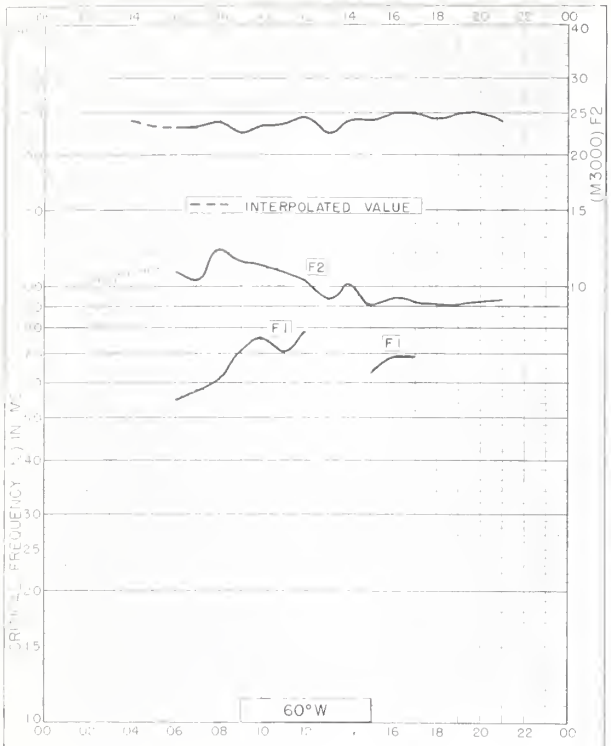

Fig. 73. DECEPCION I.
63.0°S, 60.1°W DECEPCION I. DECEMBER 1958

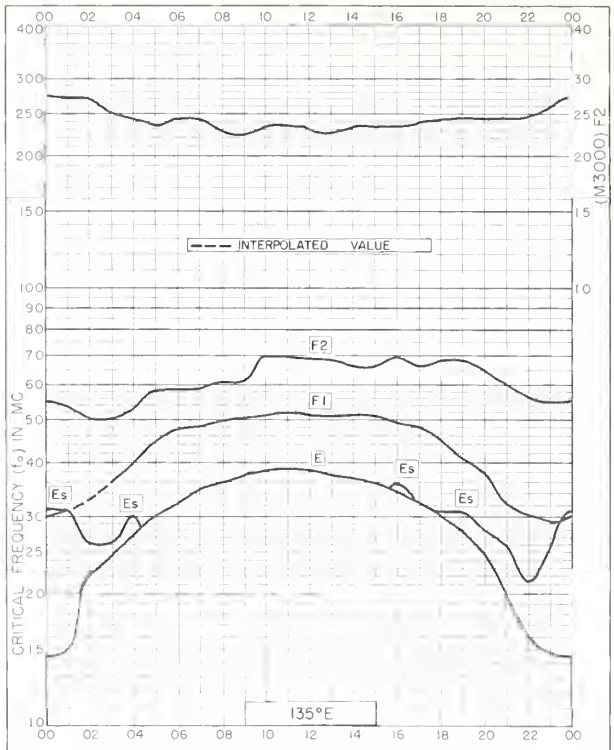

Fig 74. TERRE ADELIE
66.7°S, 140.0°E DECEMBER 1958

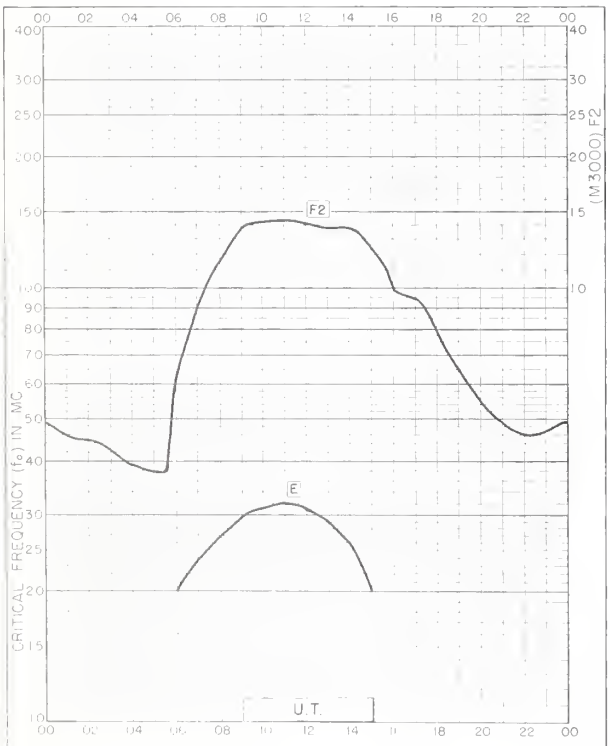

Fig 75 PRUHONICE, CZECHOSLOVAKIA
50.0°N, 14.6°E NOVEMBER 1958

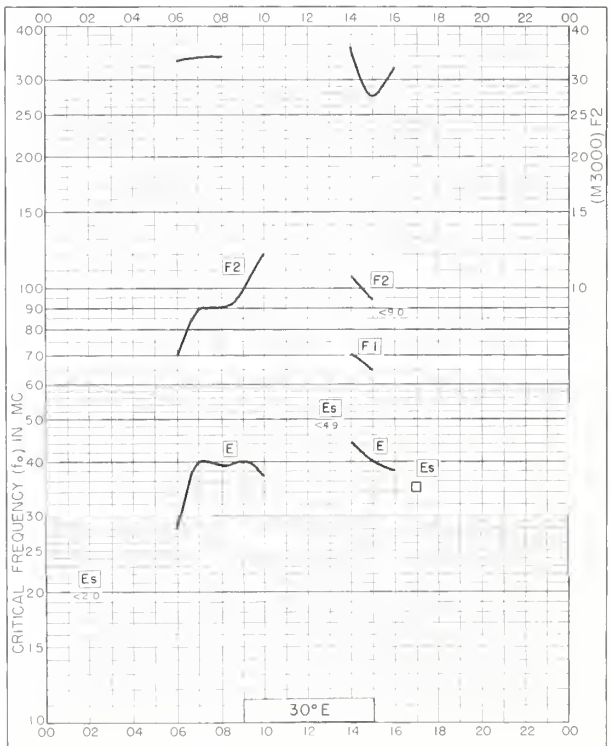

Fig. 76. SALISBURY, SOUTHERN RHODESIA
17.8°S, 31.0°E NOVEMBER 1958

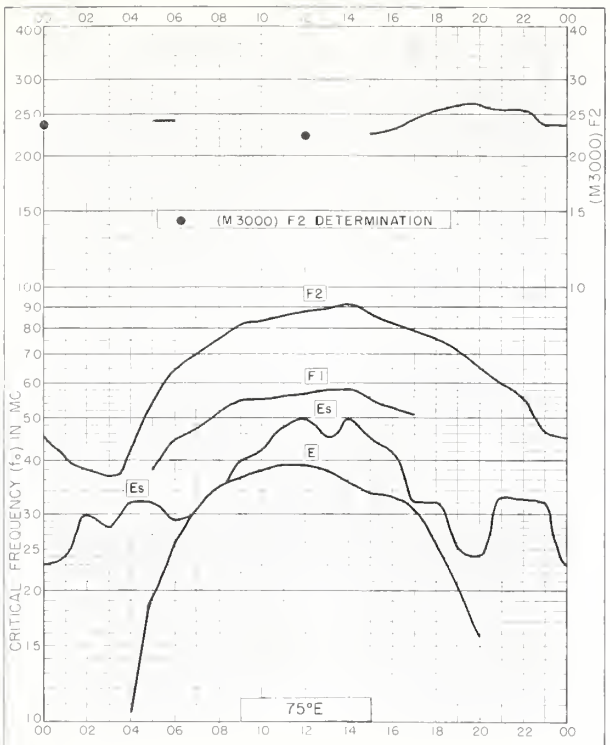

Fig. 77. KERGUELEN I.
49.4°S, 70.3°E NOVEMBER 1958

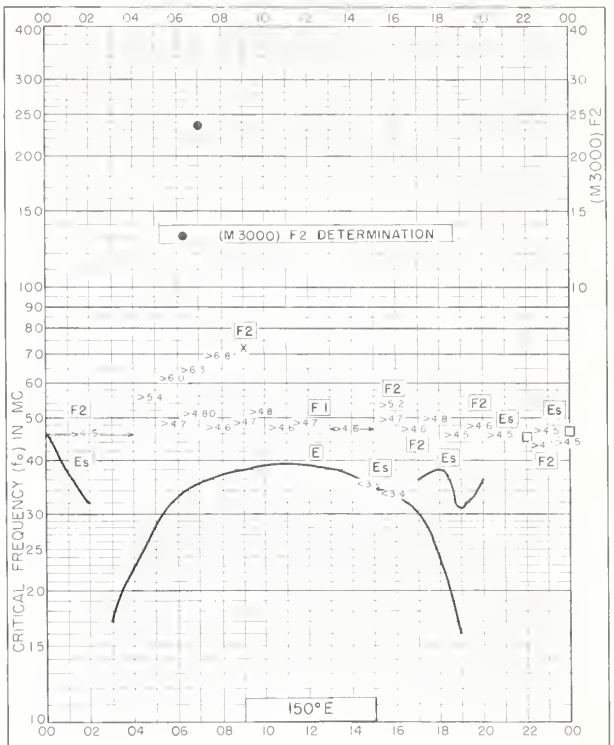

Fig. 78. MACQUARIE I.
54.5°S, 159.0°E NOVEMBER 1958

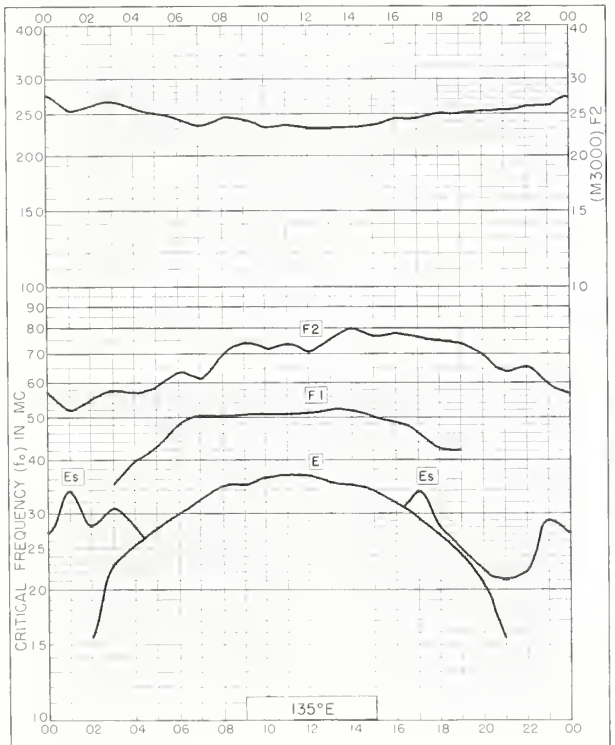

Fig. 79. TERRE ADELIE
66.7°S, 140.0°E NOVEMBER 1958

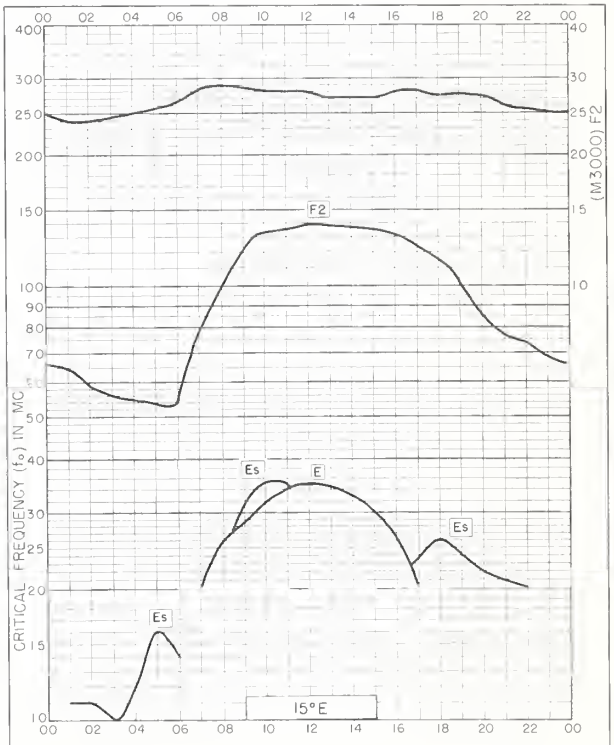

Fig. 80. JULIUSRUH/RÜGEN, GERMANY
54.6°N, 13.4°E OCTOBER 1958

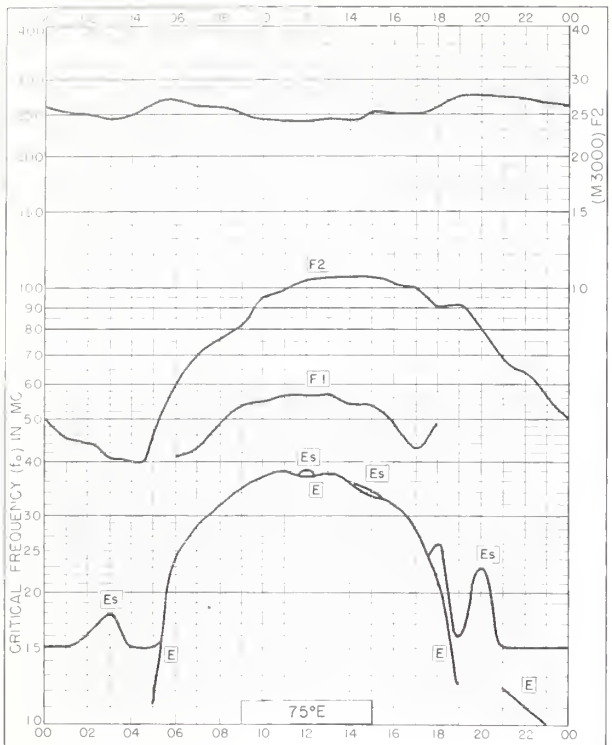

Fig 81. KERGUELEN I.
49.4°S, 70.3°E OCTOBER 1958

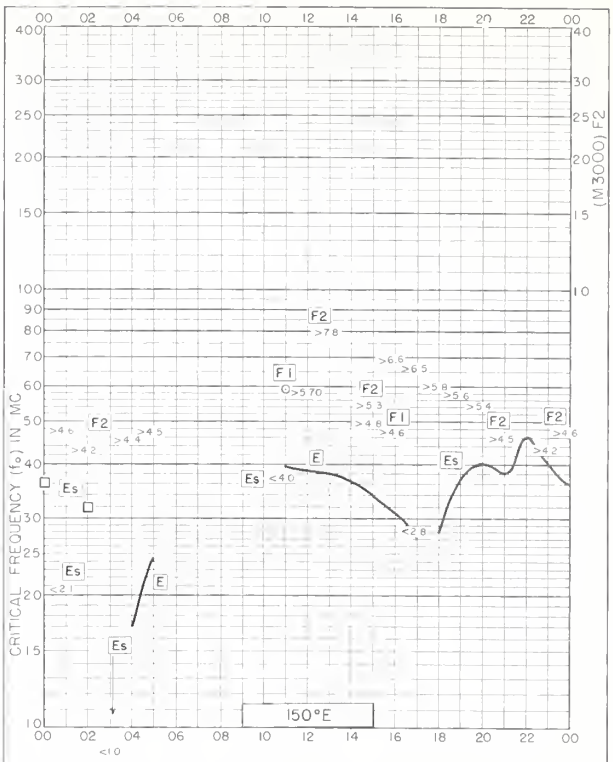

Fig. 82. MACQUARIE I.
54.5°S, 159.0°E OCTOBER 1958

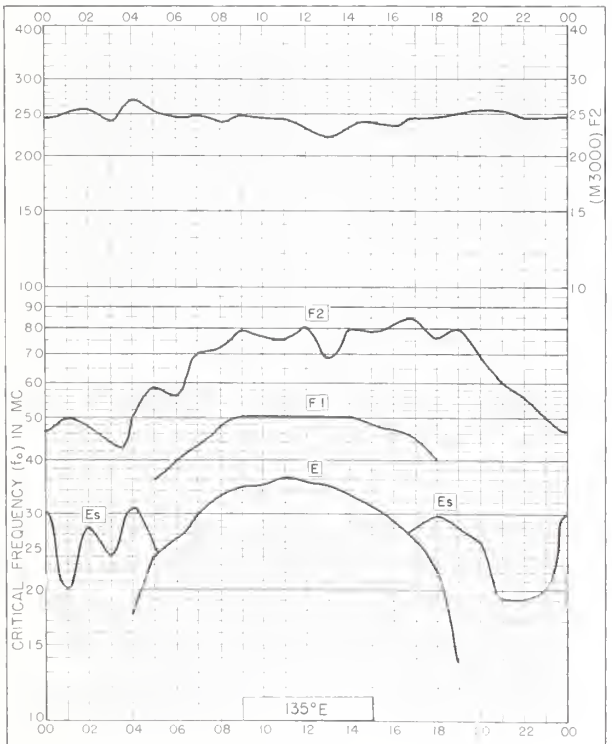

Fig 83. TERRE ADELIE
66.7°S, 140.0°E OCTOBER 1958

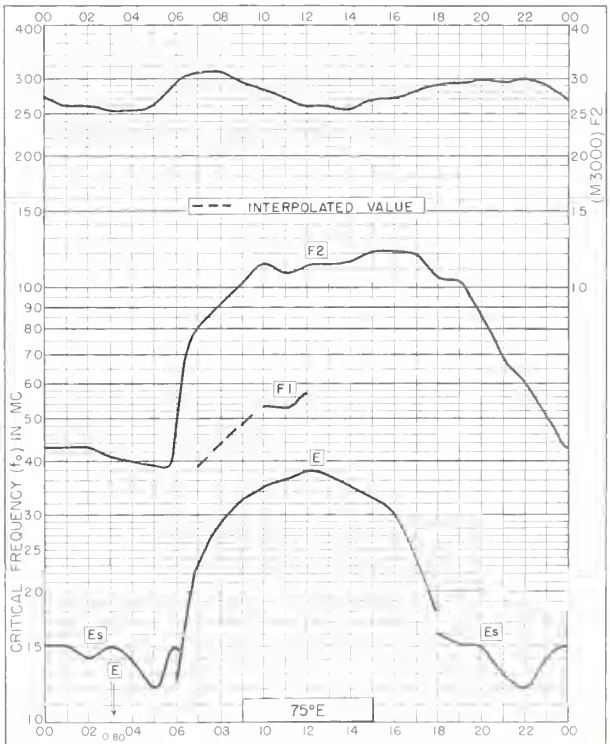

Fig. 84. KERGUELEN I.
49.4°S, 70.3°E SEPTEMBER 1958

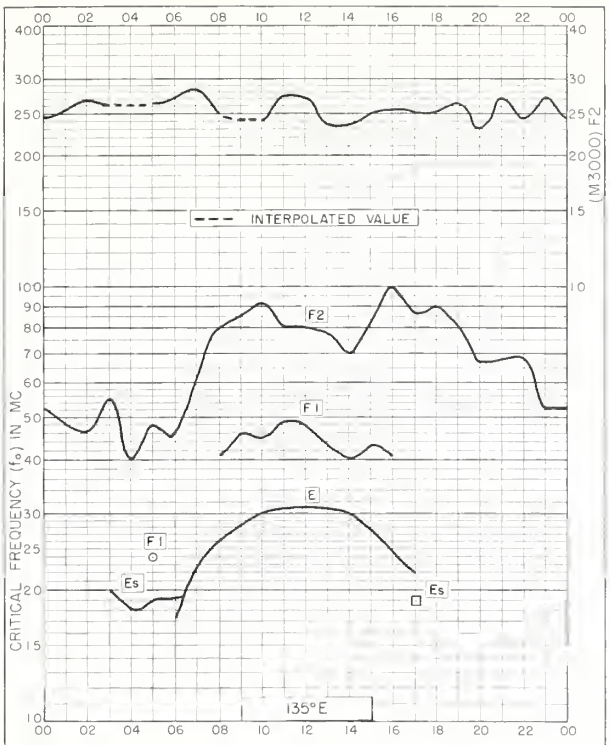

Fig. 85. TERRE ADELIE
66.7°S, 140.0°E SEPTEMBER 1958

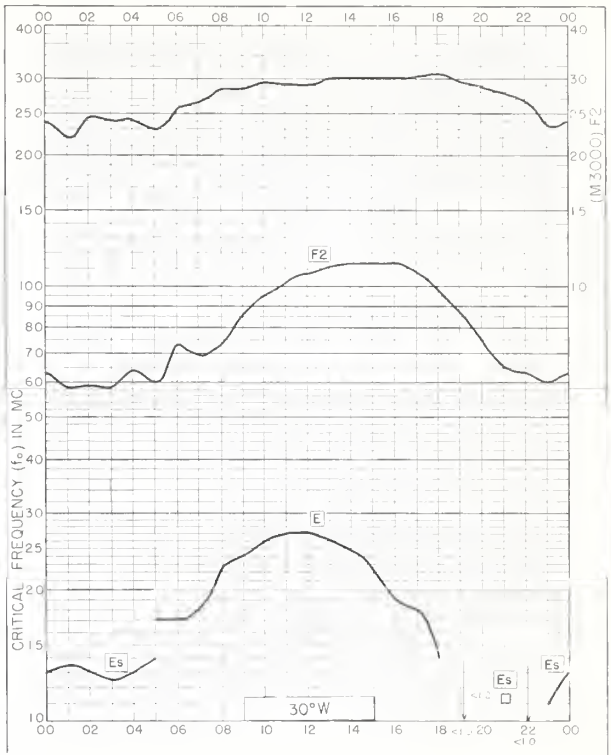

Fig. 86. HALLEY BAY
75.5°S, 26.6°W SEPTEMBER 1958

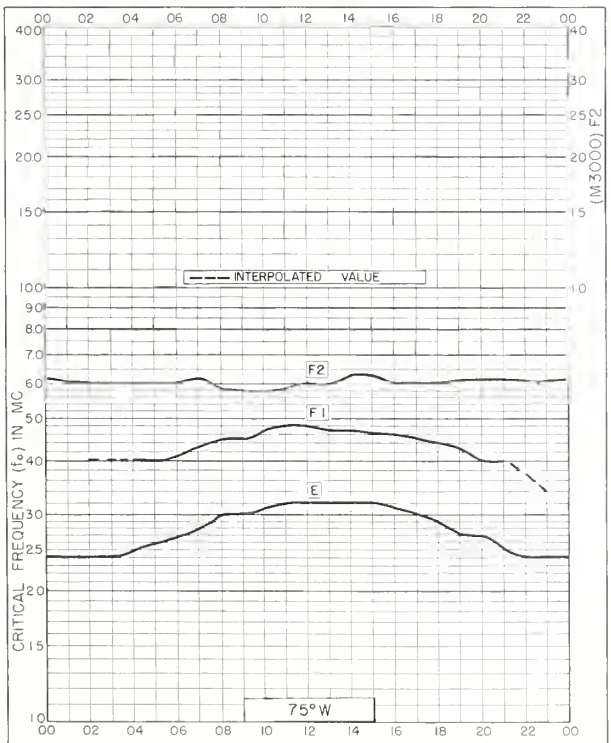

Fig. 87. EUREKA, CANADA
80.0°N, 85.9°W AUGUST 1958

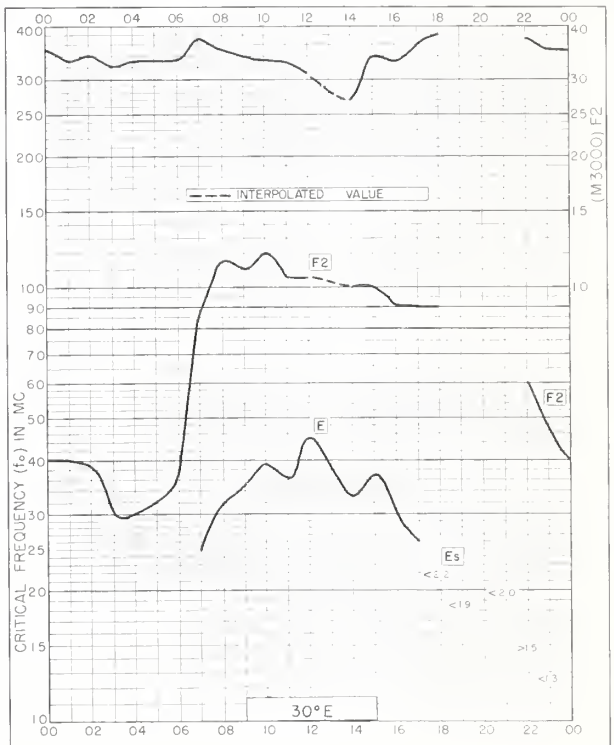

Fig. 88. SALISBURY, SOUTHERN RHODESIA
17.8°S, 31.0°E AUGUST 1958

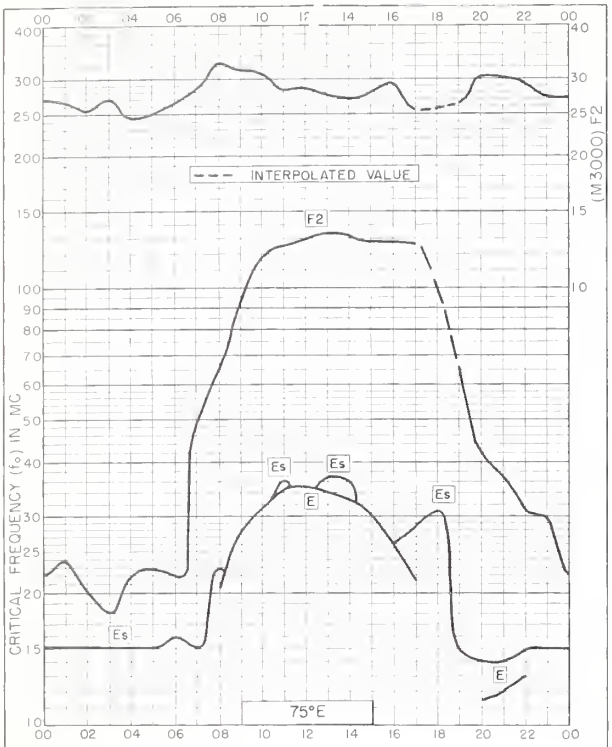

Fig. 89. KERGUELEN I.
49.4°S, 70.3°E AUGUST 1958

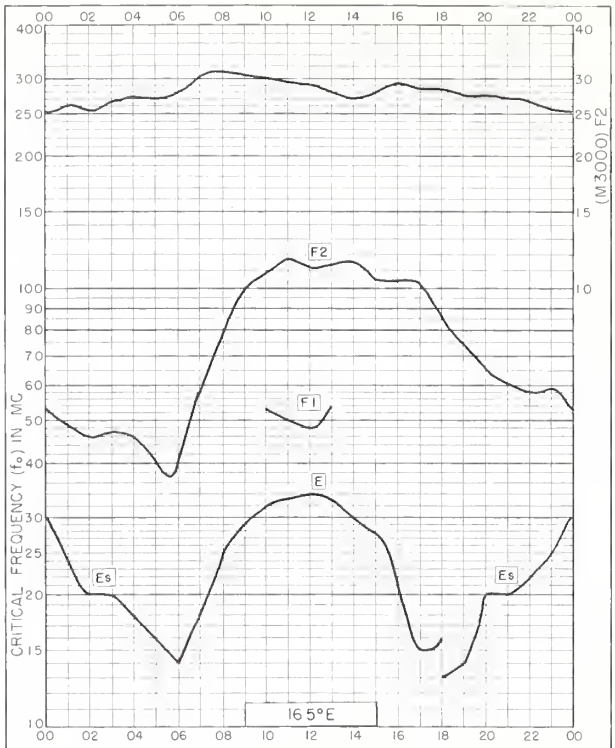

Fig. 90. CAMPBELL I.
52.5°S, 169.2°E AUGUST 1958

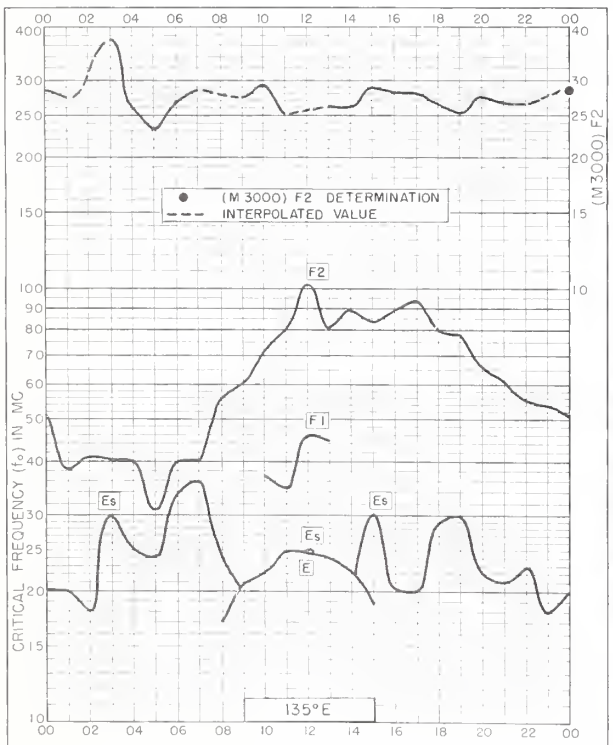

Fig. 91. TERRE ADELIE
66.7°S, 140.0°E AUGUST 1958

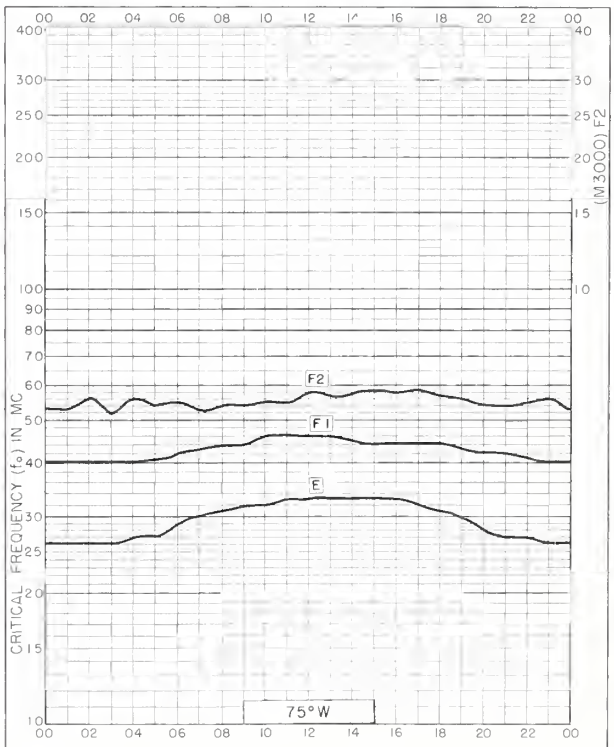

Fig. 92. EUREKA, CANADA
80.0°N, 85.9°W JULY 1958

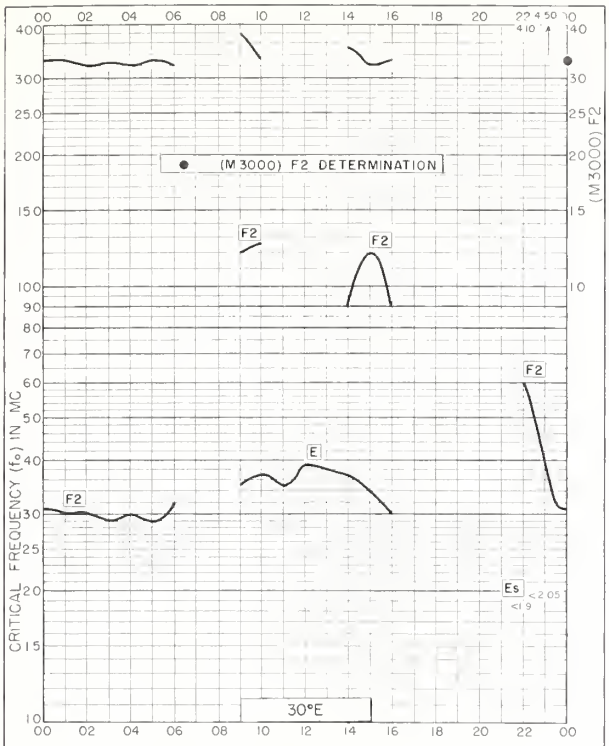

Fig. 93. SALISBURY, SOUTHERN RHODESIA
17.8°S, 31.0°E JULY 1958

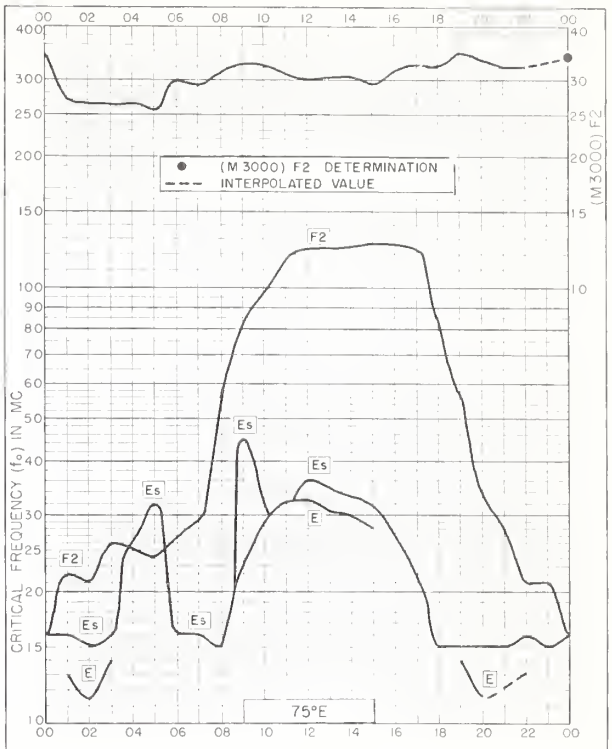

Fig. 94. KERGUELEN I.
49.4°S, 70.3°E JULY 1958

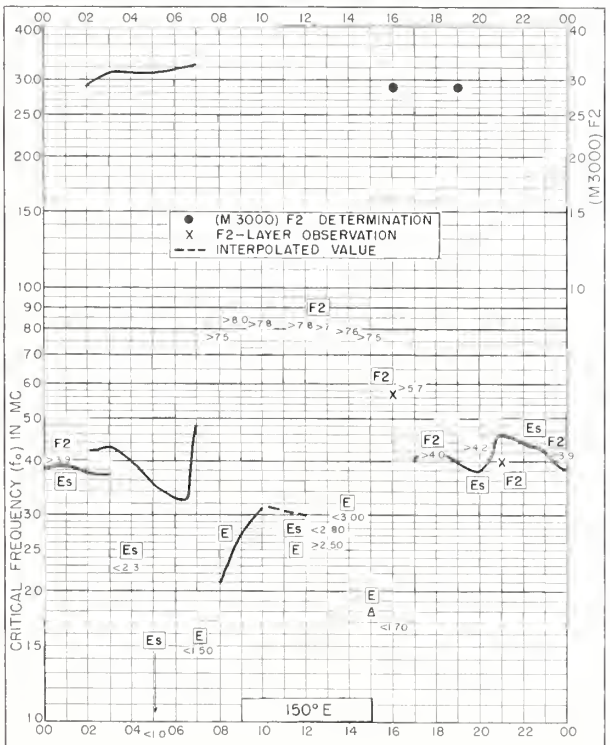

Fig. 95. MACQUARIE I.
54.5°S, 159.0°E JULY 1958

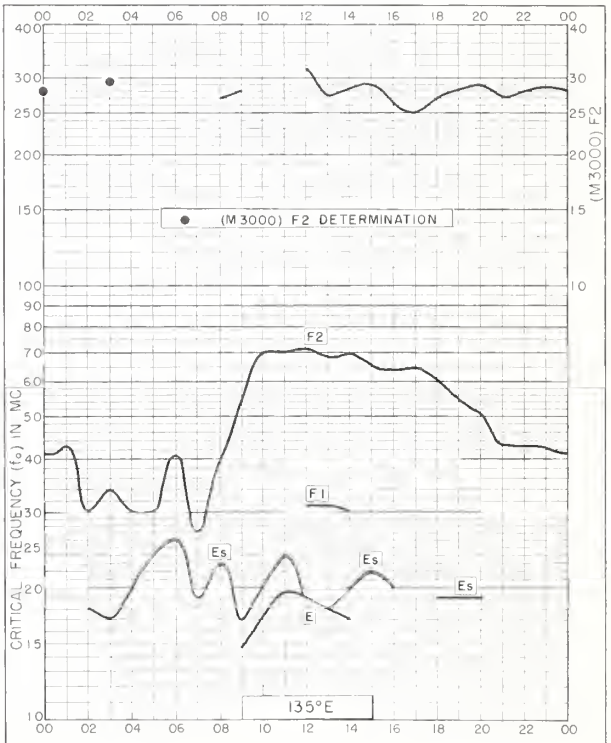

Fig. 96. TERRE ADELIE
66.7°S, 140.0°E JULY 1958

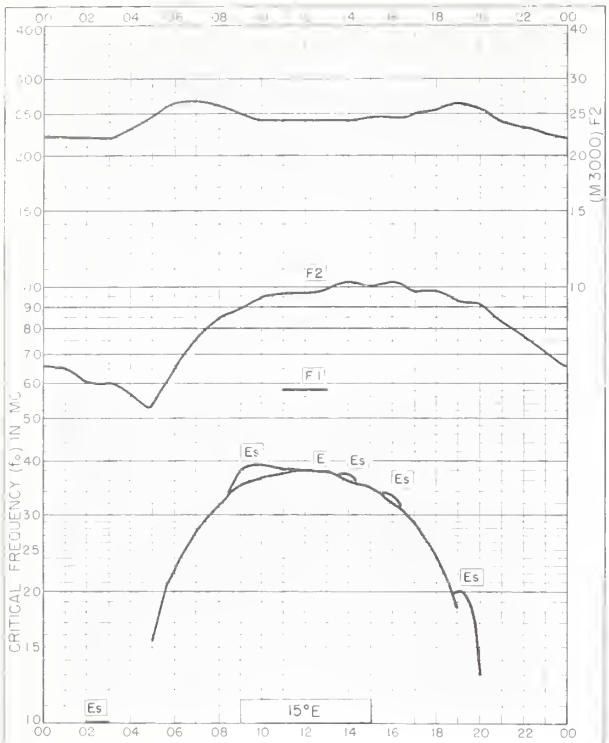

Fig 97 JULIUSRUH / RUGEN, GERMANY
54.6°N, 13.4°E APRIL 1958

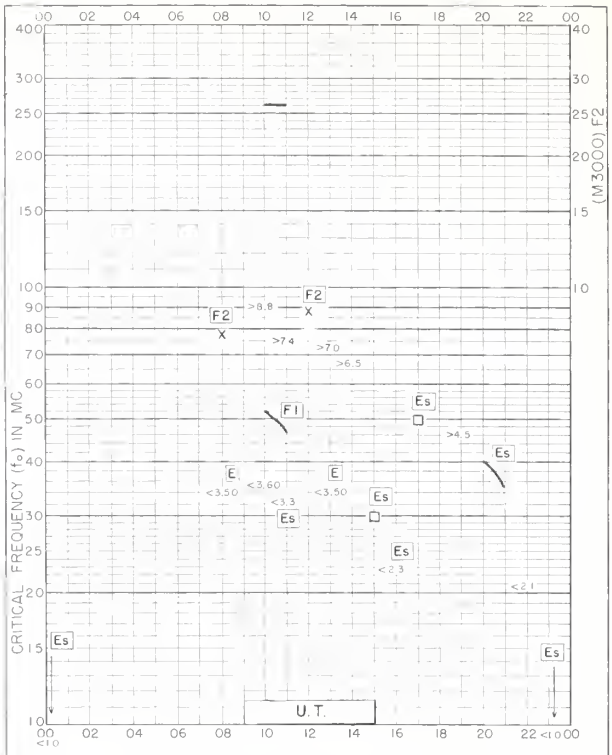

Fig. 98. MAWSON
67.6°S, 62.9°E FEBRUARY 1958

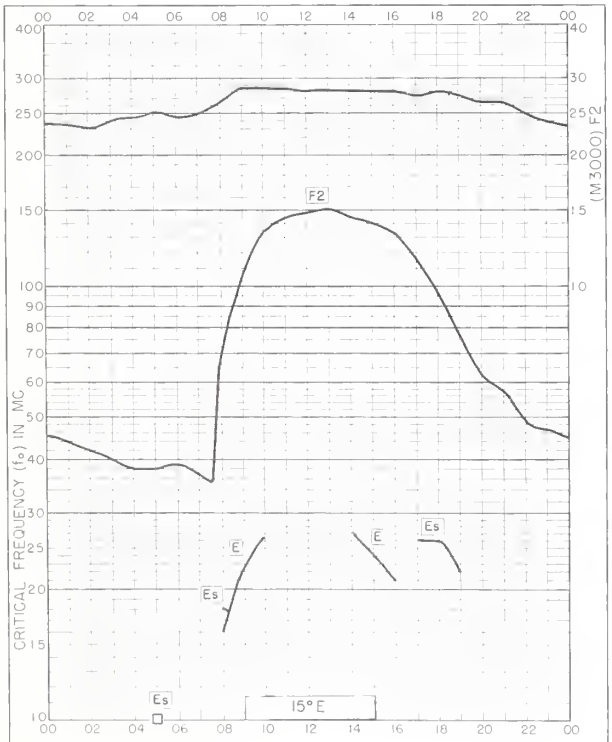

Fig 99. JULIUSRUH / RUGEN, GERMANY
54.6°N, 13.4°E JANUARY 1958

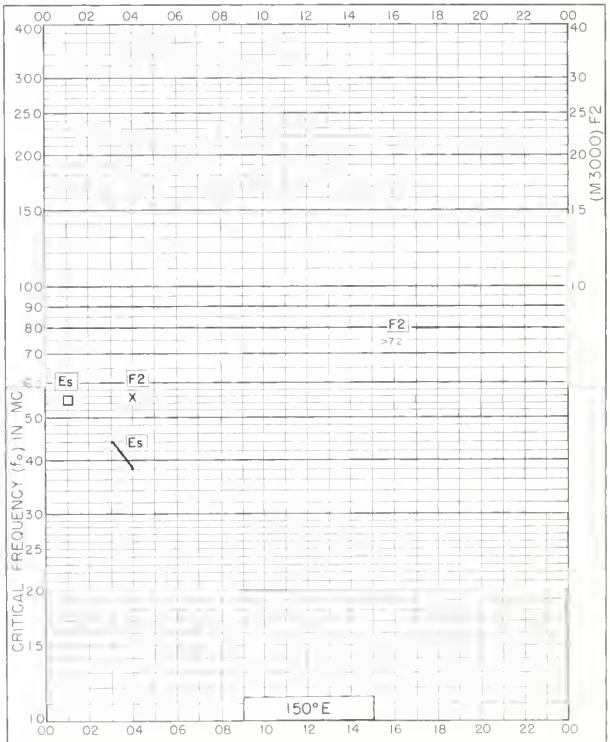

Fig. 100. MACQUARIE I.
54.5°S, 159.0°E JANUARY 1958

Index of Tables and Graphs of Ionospheric Data in CRPL-F217 (Part A)

Index (CRPL-F217 (Part A), continued)

Index (CRPL-F217 (Part A), continued)

Index (CRPL-F217 (Part A), concluded)

CRPL Reports

[A detailed list of CRPL publications is available from the Central Radio Propagation Laboratory upon request]

Daily:

Radio disturbance forecasts, every half hour from broadcast stations WWV and WWVH of the National Bureau of Standards.

Telephoned and telegraphed reports of ionospheric, solar, geomagnetic, and radio propagation data.

Weekly:

CRPL—J. North Atlantic Radio Propagation Forecast.
CRPL—Jp. North Pacific Radio Propagation Forecast.

Semimonthly:

CRPL—Ja. Semimonthly Frequency Revision Factors For CRPL Basic Radio Propagation Prediction Reports.

Monthly:

CRPL—D. Basic Radio Propagation Predictions—Three months in advance. (Dept. of the Army, TB 11—499—, monthly supplements to TM 11—499; Dept. of the Air Force, TO 31—3—28 series). On sale by Superintendent of Documents. Members of the Armed Forces should address cognizant military office.

CRPL—F. (Part A). Ionospheric Data.
(Part B). Solar-Geophysical Data.
Limited distribution. These publications are in general disseminated only to those individuals or scientific organizations which collaborate in the exchange of ionospheric, solar, geomagnetic, or other radio propagation data.

Catalog of Data:

A catalog of records and data on file at the U. S. IGY World Data Center A for Airglow and Ionosphere, Boulder Laboratories, National Bureau of Standards, which includes a fee schedule to cover the cost of supplying copies, is available upon request.

The publications listed above may be obtained without charge from the Central Radio Propagation Laboratory, National Bureau of Standards, Boulder Laboratories, Boulder, Colorado, unless otherwise indicated. Please note that the F series is not generally available.

Circulars of the National Bureau of Standards pertaining to Radio Sky Wave Transmission:

NBS Circular 462. Ionospheric Radio Propagation. $1.25.
NBS Circular 465. Instructions for the Use of Basic Radio Propagation Predictions. 30 cents.
NBS Circular 557. Worldwide Radio Noise Levels Expected in the Frequency Band 10 Kilocycles to 100 megacycles. 30 cents.
NBS Circular 582. Worldwide Occurrence of Sporadic *E*. $3.25.

These Circulars are on sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C. Members of the Armed Forces should address the respective military office having cognizance of radio wave propagation.

Selected Technical Notes of the National Bureau of Standards:

NBS Tech. Note 2. PB151361. World Maps of F2 Critical Frequencies and Maximum Usable Frequency Factors. $3.50. PB151361–2. $3.50.
NBS Tech. Note 13. PB151372. Technical Considerations Leading to an Optimum Allocation of Radio Frequencies in the Band 25 to 60 Mc. $2.50.
NBS Tech. Note 18. PB151377. Radio Noise Data for the IGY. $2.50.
18–2. PB151377–2. Quarterly Radio Noise Data (Mar.-May 1959). $1.00.
18–3. PB151377–3. (June-Aug. 1959). $1.00.
18–4. PB151377–4, etc. (Sept.-Nov. 1959). $1.50.
NBS Tech. Note 31. PB151390. An Atlas of Oblique-Incidence Ionograms. $2.25.
NBS Tech. Note 40–1. PB151399–1. Mean Electron Density Variations of the Quiet Ionosphere, 1: March 1959. $1.25.
40–2. PB151399–2, etc. 2: April 1959. $1.25.
NBS Tech. Note 117. PB161618. Variations in Frequency of Occurrence of Sporadic E, 1949—1959. $0.75.

These Technical Notes are on sale by the Office of Technical Services, U. S. Department of Commerce, Washington 25, D. C. Order by PB number.